

PORTLAND CHEMICAL WORKS ENVIRONMENTAL SITE ASSESSMENT PHASE II AND III REPORT

> PREPARED FOR: CITY OF MIDDLETOWN

> > AUCUST 1008

EXECUTIVE SUMMARY

Executive Summary

As a follow up to the Phase I performed in June 1998, Woodard & Curran (W&C) has completed Phases II and III of the Environmental Site Assessment for the site formerly occupied by Portland Chemical Works located at 680 Newfield Street, Middletown, Connecticut. The work was performed in accordance with the contract scope of work presented in the work order agreement between W&C and the City of Middletown dated May 28, 1998.

These Phase II and III investigations were performed to investigate potential concerns associated with contamination of the soil and /or groundwater only. Although not discussed in this report, demolition and removal of tanks, piping, and associated materials is understood to be required at the Site. This will be the subject of future reports, specifically, the Remedial Action Plan.

In general the results of the investigations are that groundwater does not require remediation at the site, and that remediation will be focussed on removing contaminated soil and materials from three specific areas on the site.

The Phase II field investigation occurred in early July 1998 to determine the presence or absence of subsurface contamination at each of the nine Areas of Concern (AOCs) identified in the Phase I Report. The results of the Phase II investigation indicated TPH levels above the Connecticut Remediation Standard Regulations Commercial/Industrial Criteria for Direct Exposure at AOC #2, the Loading Rack and AOC #6, the Aboveground Storage Tanks. Minor levels of chlorinated hydrocarbons and solvents were detected in the soil and groundwater near the Chemical Manhole, AOC #5. As a result of the Phase II activities, it was determined that the remaining six AOCs do not warrant further investigation or remediation.

The Phase II investigation also found that although detectable levels of some solvents were observed in the groundwater, groundwater contamination was generally not an issue because the groundwater at the site is classified GB, wells nearest to the only surface water body contained no detectable contamination, and there is no building in the one location where the RSR volatilization criteria was exceeded. It appears that groundwater may have been somewhat protected against contamination by on-site activities by a subsurface clay layer which acts as a barrier to contaminant migration.

The Phase III field investigation occurred in early August 1998 to determine the lateral and vertical extent of contamination present at each of the three AOCs where contamination was detected during the Phase II investigation. Significant TPH soil contamination was delineated over a wide area near the Loading Rack, AOC #2. W&C estimates approximately 185 cubic yards (280 tons) of soil is contaminated near the Loading Rack from just west of the rack to approximately twenty feet east of the bridge and from the toe of the tank farm dike to the toe of the railroad bed. The depth of the contamination is limited to the top two feet of soil. This material would likely warrant removal and disposal, and will be addressed in detail in the pending Remedial Action Plan.

The Phase III investigation also identified the presence of a leach field approximately six to eight feet directly below the Chemical Manhole, AOC #5. The field investigation indicated that the leach field extends ten feet in all four directions away from the manhole. This leach field apparently historically received spillage and rinsewater from a floor drain in the adjacent drum filling building. This operation is most likely the source of low-level residual VOC contamination identified in the leach field material and in a very limited area of groundwater (one well location). It is assumed that remediation of this AOC would consist of excavation and removal of the leach field. The estimated total volume of material to be

addressed at the chemical manhole location is approximately 120 cubic yards (180 tons). This activity will be discussed in the pending Remedial Action Plan.

Significant TPH soil contamination was detected in the area of the 275-gallon Aboveground Storage Tanks, AOC #6. The aerial extent of contamination appeared to coincide with visible soil staining on the ground surface, with the depth of contamination ranging from four feet on the eastern edge to eight feet on the western edge of the staining. The estimated total volume of contaminated soil is 50 cubic yards (75 tons). This soil will likely warrant removal and disposal, and will be addressed in detail in the pending Remedial Action Plan.

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SECTION 1

1.0 INTRODUCTION

Woodard & Curran Inc. (W&C) performed Phases II and III of the environmental site assessment for the Portland Chemical Works (PCW) site in accordance with the contract scope of work presented in the work order agreement between W&C and the City of Middletown dated May 28, 1998. Field activities were conducted between July 1, 1998 and August 3, 1998. This report details the methodology and results of the Phase II and III activities. These results will form the basis for the pending Remedial Action Plan, which will present a recommended course of action and cost estimates for remediation of environmental issues at the site.

The information in the report is presented in such a manner as to reflect the various phases of the investigation. The Phase II discussion starts with the nine Areas of Concern (AOCs) identified in the Phase I Report (June 1998) and describes how these AOCs were investigated to determine the "presence or absence" of contamination. The results of the Phase II investigation are shown to determine which AOCs are "non-issues" and which were found to have contamination warranting a Phase III investigation to determine the extent of contamination. The Phase III discussion takes the remaining AOCs through the delineation study process, and presents the results and assumptions used to determine the location and extent of the contaminated area which will in turn be incorporated into a Remedial Action Plan.

A feature of the site that had a significant effect on both the design and findings of the investigation is the GB (degraded) classification of groundwater underlying the site. The GB classification means that less regulatory criteria apply to groundwater quality, and that cleanup levels for contaminated soil are less stringent than for sites located over a GA (drinking water quality) aquifer.

In evaluating this site, sample results were compared to the State of Connecticut Remediation Standard Regulations (RSR) dated January 1996. The RSRs provide a set of minimum criteria that soil and groundwater characteristics must meet for a given land use. If any of the criteria were not met, remediation such as soil removal and/or groundwater remediation might be required at the site in order to attain the appropriate criteria levels. Relevant criteria for the Portland Chemical Works site include:

- Industrial/Commercial Direct Exposure Criteria for soil;
- Pollutant Mobility Criteria for soil located in a GB groundwater area;
- Surface Water Protection Criteria; and
- Industrial/Commercial Volatilization Criteria for groundwater.

Of these criteria, and as is discussed later in this report, the Direct Exposure criteria were found to be the primary driver for future remediation at the site.

SECTION 2

2.0 PHASE II

W&C performed Phase II of the assessment to investigate each of the Areas of Concern (AOCs) identified in the Phase I report (June 1998), as listed in Table 2-1 and shown in Figure 2-1. The purpose of the Phase II investigation was to determine the presence or absence of subsurface contamination which may present a risk of significant liability for each of the AOCs. The objective was to identify which of the nine AOCs warranted additional Phase III investigation, and which could be eliminated.

The Phase II investigation tasks and results are discussed in further detail below.

2.1 METHODOLOGY

The Phase II investigation consisted generally of the sampling of existing groundwater monitoring wells, the installation and sampling of several new soil borings/monitoring wells, and near surface soil sampling using a hand auger. Table 2-1 lists the sampling activities by AOC. Approximate sampling locations are depicted in Figure 2-1. A detailed discussion of the procedures is presented in the following paragraphs.

On July 1, 1998, four new soil borings/monitoring wells (MW-201, 202, 203, and 204) were installed at the site by New England Boring Contractors of Glastonbury, Connecticut. The borings/wells were installed using a bombardier-type drill rig and four-inch hollow stem augers. Continuous split spoon samples were collected to identify subsurface soil conditions and field screened using a photoionization detector. One sample was selected from each boring for laboratory analysis for the constituents listed below. The drill rig and associated augers and rods were steam-cleaned between each boring. Appendix A presents the well logs for each of the monitoring wells constructed.

On July 2, 1998, W&C collected fourteen near-surface soil/sediment samples to determine the presence or absence of soil contamination for five of the AOCs (AOC #1, #2, #5, #6, and #7). All samples were collected from 0.5 to 4 feet below ground surface using a hand auger. The soil sample was placed in an aluminum bowl and then transferred to sample jars with stainless steel spoons. The sample jars were then packed in ice for delivery to the laboratory. All sampling equipment including hand auger, spoons, and bowls were decontaminated between each sample using the USEPA-accepted three-step protocol. Quality Assurance/Quality Control was provided by the analysis of one duplicate sample, an equipment blank, and a trip blank.

On July 7 and 8, 1998, W&C personnel surveyed all well and water elevations and collected 12 groundwater samples from the monitoring wells at the site to determine the presence or absence of groundwater contamination. All wells were purged of at least three well volumes using a dedicated PVC bailer prior to collecting samples. Temperature, pH, and conductivity were recorded in the field logbook and proper sampling techniques were implemented to maintain sample integrity. An equipment blank and trip blank were also analyzed.

Complete Environmental Testing, Inc. of Shelton, Connecticut analyzed all soil/sediment and groundwater samples collected. Soil samples collected were analyzed for the following:

- Total Petroleum Hydrocarbons (TPH Method 418.1),
- Cyanide,
- Total RCRA Metals including copper and nickel,
- SPLP Metals, and
- Volatile Organic Compounds (Method 8260).

Groundwater samples collected were analyzed for:

- Total Petroleum Hydrocarbons (TPH Method 418.1),
- Cyanide,
- Dissolved RCRA Metals including copper and nickel, and
- Volatile Organic Compounds (Method 8260).

The results of the sampling and analysis program were evaluated and a decision made as to whether each AOC warranted additional investigation and/or remediation.

2.2 RESULTS

Table 2-2 presents a summary of the soil sample results and Table 2-3 presents a summary of the groundwater sample results. All results of the soil and groundwater analyses were compared to the Connecticut Remediation Standard Regulations (RSRs). The laboratory analytical data is presented in Appendix B.

The site generally slopes from the west to the east across the site with a wetland area in the eastern portion of the site. The top two to five feet of soil at the site consists of fine, silty sands. Clay is located throughout the entire site starting at one to five feet below the surface and continuing to a depth of at least 25 feet below ground surface. This substantial clay layer most likely acts as a barrier by restricting the mobility of any contaminants spilled or released on the site, effectively "protecting" the underlying groundwater.

Table 2-4 presents the well and groundwater elevations as observed on July 8, 1998 and Figure 2-2 presents the groundwater contours across the site. The data indicates that groundwater generally flows in a west to east direction across the site, with a slight radial flow observed in the vicinity of the Chemical Manhole (AOC #5).

AOC #1 - No contaminants were detected above applicable RSR criteria in the soil samples collected in the area of the tank farm, AOC #1. Additionally, no contaminants were discovered in the groundwater sampled from MW-203 and MW-204, adjacent and immediately downgradient of the tank farm. Therefore, the subsurface does not appear to have been impacted by the tank farm and no further investigation of AOC #1 is considered warranted.

AOC #2 – Petroleum-related compounds (TPH, ethylbenzene, toluene, and xylenes) were detected in all soil samples collected in the area of the loading rack, AOC #2. TPH exceeded the RSR Commercial/Industrial Criteria for Direct Exposure in three of the four samples. The sample of soil/sediment (location 2A) collected within the sump at the center of the loading rack exhibited the highest concentrations of petroleum compounds and some levels of solvents. No compounds were detected in the groundwater sampled at MW-203, immediately downgradient of the loading rack.

Further investigation of the groundwater in the area of the loading rack is not considered warranted. However, further investigation to define the lateral and vertical extent of TPH-contaminated soil in the area of the loading rack was performed during the Phase III investigation. The results of the Phase III investigation are discussed in Section 3.

- AOC #3 No contaminants were detected above RSR levels in either the soil or the groundwater samples collected at MW-202, immediately downgradient of the heating oil underground storage tank (UST). Therefore, the subsurface does not appear to have been impacted by the heating oil UST and further investigation of AOC #3 is not warranted.
- AOC #4 No contaminants were detected above applicable RSR criteria in the groundwater sample collected at the existing monitoring well MW-101, immediately downgradient of the gasoline and diesel USTs. Therefore, groundwater does not appear to have been impacted by the gasoline and diesel USTs and further investigation of AOC #4 is not warranted. It is assumed that these tanks would be removed as part of redevelopment of the site, and that standard confirmation sampling would be done at this time to determine whether or not soil contamination is present.
- AOC #5 Groundwater quality does appear to have been impacted in the area immediately adjacent to the chemical manhole. Elevated concentrations of chlorinated solvents were detected in MW-106, the well directly adjacent to the chemical manhole, and minor levels of solvents (below RSR GA water quality criteria) were detected in wells MW-104, MW-105, MW-107, and MW-108 which are all located in the immediate vicinity of the chemical manhole.
- 1,2 Dichloroethane, cis-1,2 dichloroethylene, tetrachloroethylene, trichloroethylene, and vinyl chloride were detected in the groundwater sample from MW-106, the monitoring well closest to the chemical manhole. The levels detected did not exceed any applicable RSR criteria, but were significantly higher than at wells MW-104, MW-105, MW-107, and MW-108, indicating that the groundwater impact is confined to a small area. The level of vinyl chloride detected at MW-106 did exceed the RSR Volatilization Criteria. This is not an issue requiring any further action unless future site development includes placing a building over this area.

Since the groundwater at the site is classified GB, and because the soil is predominantly clay, the elevated levels observed in the groundwater in the area of the chemical manhole is not considered a concern requiring remediation. Further investigation was performed during Phase III to characterize the chemical manhole and subsurface soil/materials.

- AOC #6 Elevated TPH levels were detected in soil samples collected near the aboveground fuel-oil storage tanks near the northwest corner of Warehouse #2. The levels did not exceed industrial/commercial direct exposure or any other applicable RSR criteria. Further investigation of the area near the aboveground storage tanks is warranted to determine the lateral and vertical extent of TPH soil contamination.
- AOC #7 No constituents were detected above applicable RSR criteria in the soil/sediment samples collected in the area of the debris on the north side of the stream. A slightly elevated level of TPH (87 ppm) was detected in one of the two samples collected; however, the level was well below the RSR Industrial/Commercial Direct Exposure Limit criteria of 2500 ppm. Therefore, the subsurface does not appear to have been greatly impacted by the debris observed on the north side of the stream and further investigation of AOC #7 is not considered warranted.
- AOC #8 Low levels of solvents were detected in the groundwater sampled at MW-102, immediately downgradient of Warehouse #1. All constituents detected were below any applicable RSR criteria, and are not considered indicative of an on-going source of contamination to the groundwater. Therefore, further investigation of AOC #8 is not warranted.

AOC #9 - Low levels of solvents were also detected in the groundwater sampled at MW-103, immediately downgradient of Warehouse #2. All constituents detected were below any applicable RSR criteria, and are not considered indicative of an on-going source. Therefore, further investigation of AOC #9 is not warranted.

2.3 DISCUSSION

Table 2-5 presents a summary of the findings for Phase II of the environmental assessment. No contamination was observed in the soil or groundwater for AOC #1 - the tank farm, AOC #3 - the heating oil UST, AOC #4 - the gasoline and diesel UST, and AOC #7 - the debris area on the north side of the stream. The absence of contamination warranting remediation has been confirmed at these locations, therefore these areas do not require further investigation.

Contamination warranting remediation was identified at three AOCs. These were:

- AOC #2 the Loading Rack;
- AOC #5 the Chemical Manhole; and
- AOC #6 the Aboveground Storage Tanks.

These AOCs were the subject of the subsequent Phase III investigation.

Significant soil/sediment TPH contamination was observed at AOC #2, the loading rack, as discussed in Section 2.2. Groundwater samples collected at MW-203, immediately downgradient of the loading rack, indicate the contamination has not impacted the groundwater. Therefore, further investigation was performed on only the soil in this area to further delineate the horizontal and vertical extent of TPH contamination present. This was performed during Phase III of the assessment and the results are discussed below in Section 3.

Groundwater quality appears to have been impacted by elevated levels of chlorinated hydrocarbons and solvents in the area immediately surrounding the chemical manhole (AOC #5). The extent of this impact is limited to the area between the chemical manhole and monitoring wells MW-104, MW-107, and MW-108. Since the detected concentrations are below any applicable RSR criteria, remediation of groundwater is not considered an issue. Subsurface soil in the area of the chemical manhole was addressed during Phase III and is described in Section 3.

Vinyl chloride detected in the groundwater at one well location, MW-106, exceeded the RSR Volatilization Criteria. This criteria applies to groundwater located beneath a building where volatile organic compounds could travel through the overlying soil, enter the building, and endanger the occupants. The "exceedance" in this case does not technically apply since there is no building at this location. If future plans call for construction of a building in this area, engineering controls could easily be put in place for a relatively low cost.

Since the groundwater at AOC #5 has been determined not to be a remediation concern, further investigation of the area was limited to determining the nature of the chemical manhole and the possibility of the manhole being a continuing source of the solvents found in the groundwater. Additionally, the soil in the immediate area around the chemical manhole was investigated. This further investigation was performed during Phase III of the assessment and the results are discussed below in Section 3.

Elevated levels of TPH were observed in the area of the 275-gallon aboveground storage tanks, AOC #6. Additional sampling to determine the lateral and vertical extent of contamination present was warranted.

This additional sampling was performed during Phase III of the assessment and the results are discussed in Section 3 below.

The low levels of solvents observed near Warehouses #1 and #2 (MW-102 and MW-103, respectively) do not require further investigation. As previously discussed, since the site is in a GB groundwater area, the results are not indicative of a continuing source of contamination, and because the underlying soils are predominantly clay, subsurface contamination is not considered an issue and these units are no longer considered an area of concern.

TABLE 2-1 PHASE I AREAS OF CONCERN

And And And And A		
AMEA OF CONCERN	ISSUE	PHASE II ACTIVITY
I. Lank Farm	Chemical storage and pipe transfer,	Five near-surface soil samples were collected within
	soil within diked area, dike breached to	soil within diked area, dike breached to the diked area and analyzed. Soil and groundwater
	wetland	samples were collected from MW-203 and MW-204
		and analyzed.
2. Loading Rack	Chemical pipe transfer, including hand	Chemical pipe transfer, including hand Four near-surface soil samples were collected just
	hookups, madequate spill containment	off the concrete pad and from within a sump on the
		pad and analyzed. Soil and groundwater samples
		were collected from MW-203 and analyzed.
3. Heating Oil Underground		
Storage Tank (UST)	r otennal release to subsurface	Soil and groundwater samples were collected from
4 Gasoline and Diesel HCT.		
STED ISSET THE STEEL OF THE	Fotential release to subsurface	A groundwater sample was collected from MW-101
		and analyzed.
o. Chemical Manhole		A soil sample was collected from within the unit
	chemicals from drum filling building,	and analyzed. Groundwater samples were collected
	possible that releases triggered the	from five wells (MW-104, 105, 106, 107, and 108)
	installation of nearby monitoring wells	and analyzed.
A 1		
o. Aboveground Fuel-oil Storage Tanks	ual evidence of releases to surface	Two near-surface soil samples were collected and
	soil	analyzed.
7. Debris Area on North Side of Stream	Presence of petroleum containers,	Two near-surface soil/sediment samples were
and historic drums		collected and analyzed.
8. Area Downgradient of Warehouse #1	Potential impacts associated with	A groundwater sample from MW-102 was collected
(9,000 s.t. building)	material handling in the vicinity of the	and anlyzed.
	warehouse	
9. Area Downgradient of Warehouse #2	Potential impacts associated with	Groundwater samples from three wells (MW-103
(s,000 s.r. building)	material handling in the vicinity of the	material handling in the vicinity of the 104, and 202) were collected and analyzed.
	warehouse	•

TABLE 2-2 PHASE II SOIL SAMPLING RESULTS

Part		AOC#1	-			A0C#2		AOC #5	AOC#6	2#;		AOC #7				
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CATILLES Control Con	11271	+	2	2	1	\dashv	_	2	£	£	2	£	Ę	Ę	1 5	9
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CATILES COS	me/L	╀	200		+	+	+	2	B	£	g	Q.	£	2	9	2
CATILLES COS	mo/f	╁			┨	+	+	0.46	0.4	0,49	0.38	0.32	0.37	0.69	0.38	0.38
CATILES Color	mg/L	╀	2 6	1	+	+	+	2	ĕ	£	g	£	g	£	£	£
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TABLE 2-3 PHASE II GROUNDWATER SAMPLING RESULTS

				1														
	Detection	GA/GAA					Existing Wells	Wells					New Wells	'elle	-			
	Limit	GP	Units	MW-101	MW-102	MW-103	NOV-104	MW-105	MW-106	MW-107	MW-108	MW-201	MV. 202	100.7	200, 200	TV to do T	7000	
трн	200	\$00.0	qdd	S	£	2	S	£	g	Ę	Ę	1	-1-	-}-		THE PENTIN	4	DURLICALE
Cyanide	100	200.0	qaa	£	£	Ę	Ş	5	15	1	ļ						Ð	£
DISSOLVED METALS									2			2	2	9	2		£	QX
Pb	13	15.0	qaa	2	٤	Ę	Ę	Ę	Ę	Ę	ļ	!						
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	2	20.0	aga	2	ĝ	£	Ð	£	£	£	£	£	S	£	5		63	
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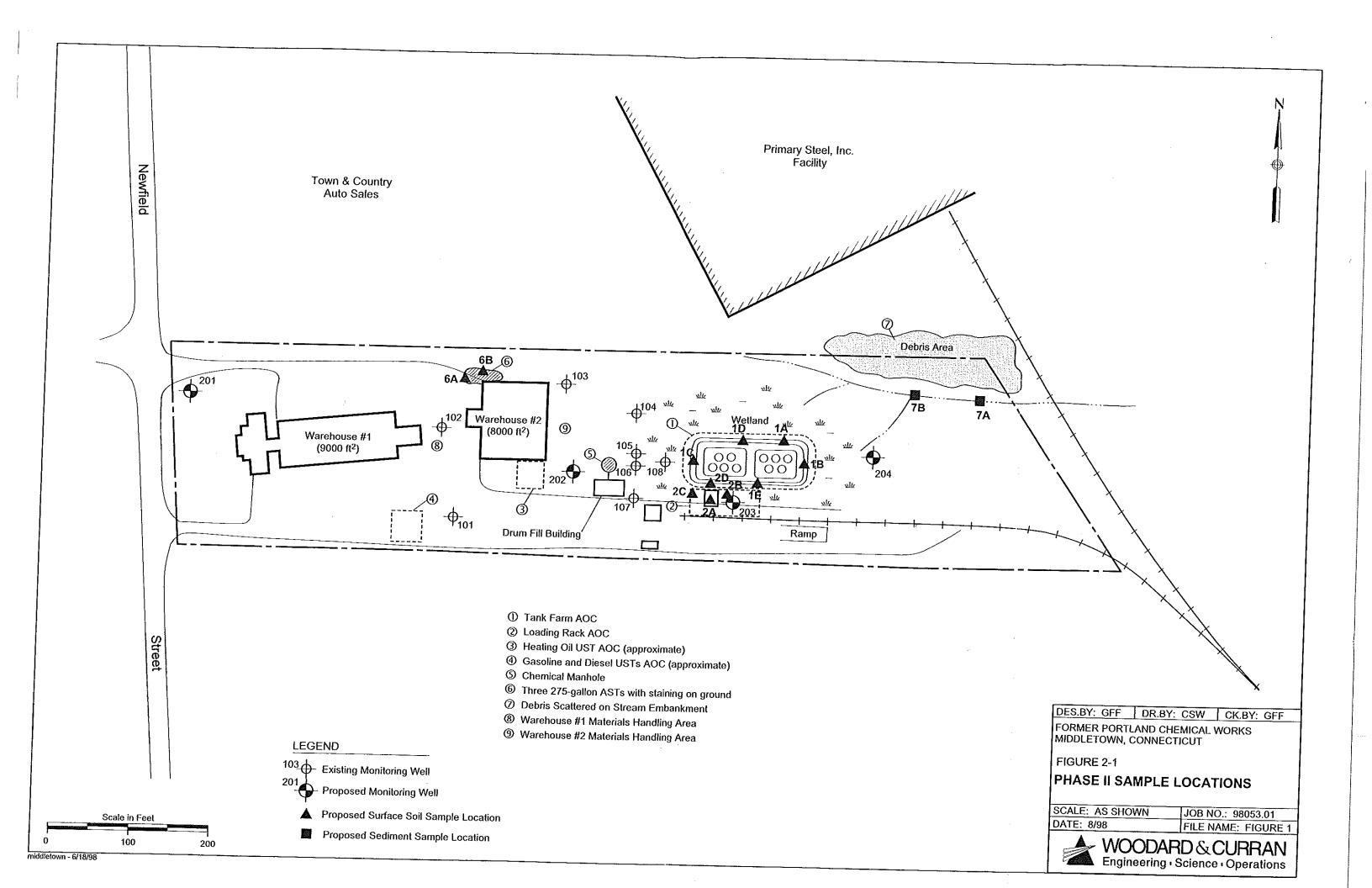
TABLE 2-4
WELL AND GROUNDWATER ELEVATIONS

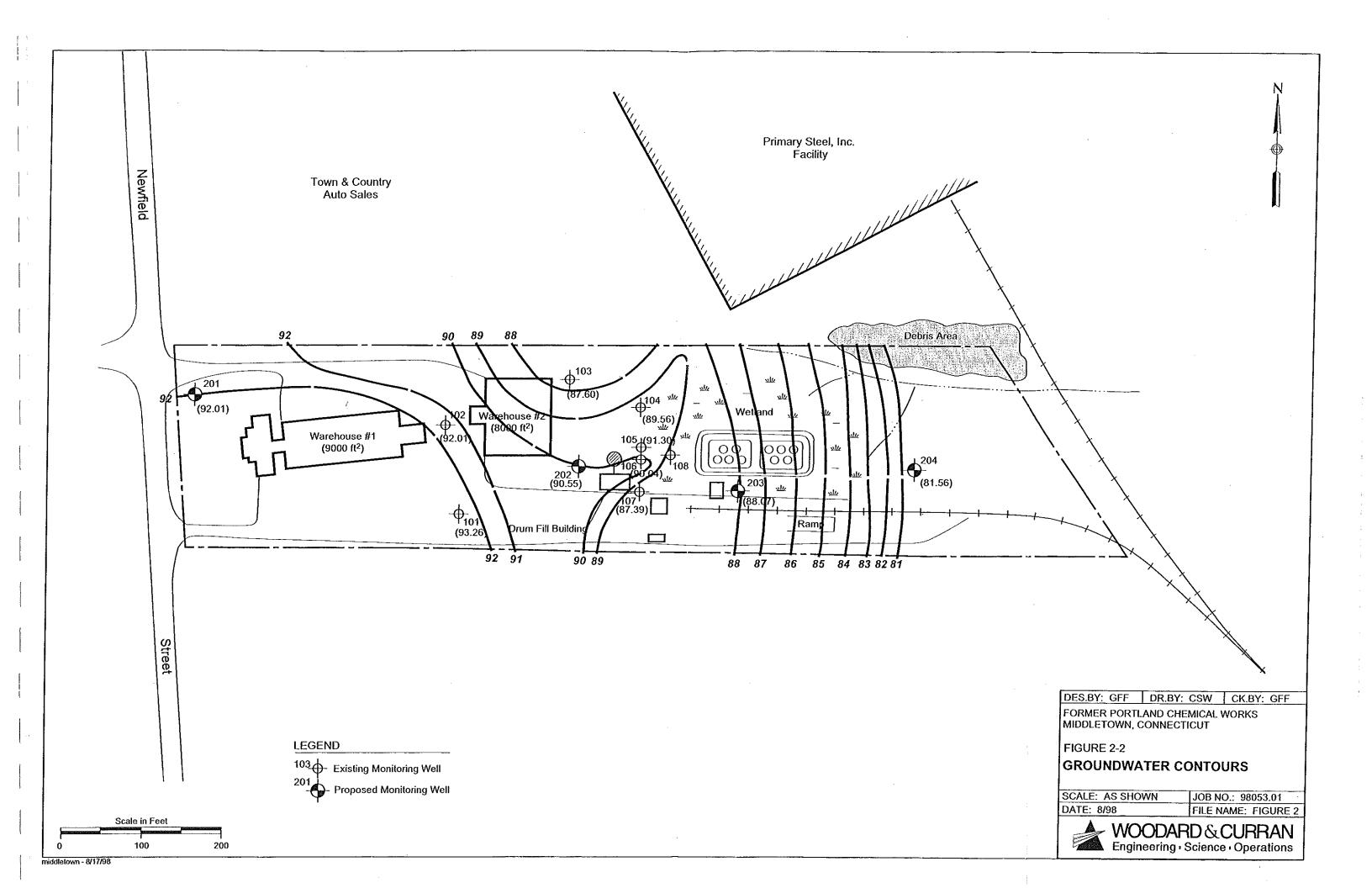
,		Well (Construction	7/	/8/98
	Elevation of top of PVC riser	Depth of Well	Well Bottom Elevation	Water Level	Water Elevation
MW-101	96.15	11.22	84.93	2.89	93.26
MW-102	94.21	11.75	82.46	2.2	92.01
MW-103	92.88	11.75	81.13	5.28	87.6
MW-104	94.94	15.14	79.8	5.38	89.56
MW-105	92.7	21.2	71.5	1,4	91.3
MW-106	96.4	15.37	81.03	6.36	90.04
MW-107	95.64	15.16	80,48	8.25	87.39
MW-108	*	14.3	*	6.29	*
MW-201	97.58	16.4	81.18	5.57	92.01
MW-202	92.58	17.65	74.93	2.03	90.55
MW-203	90.32	14.83	75.49	2.25	88.07
MW-204	87.84	15.85	71.99	6.28	81.56

^{*} Unable to survey monitoring well MW-108 due to restricted lines of sight.

TABLE 2-5 PHASE II SUMMARY

AREA OF CONCERN	ISSUE	PHASE II ACTIVITY	C STAND OF AAR LAD TAALE
l. Tank Farm	Chemical storage and pipe transfer, soil within diked area, dike breached to wetland	and pipe transfer, soil Five near-surface soil samples were collected within None Identified the diked breached to the diked area and analyzed. Soil and groundwater samples were collected from MW-203 and MW-204 and analyzed.	None Identified
2. Loading Rack	Chernical pipe transfer, including hand hookups, inadequate spill containment	Chemical pipe transfer, including hand Four near-surface soil samples were collected just hookups, inadequate spill containment off the concrete pad and from within a sump on the pad and analyzed. Soil and groundwater samples were collected from MW-203 and analyzed.	Soil contamination present
3. Heating Oil Underground Storage Tank (UST)	Potential release to subsurface	Soil and groundwater samples were collected from MW-202 and analyzed.	None Identified
4. Casoline and Diesel USTs	Potential release to subsurface	A groundwater sample was collected from MW-101 None Identified and analyzed.	None Identified
5. Chemical Manhole	Apparently designed to receive spilled A soil sample chemicals from drum filling building, analyzed. Gropossible that releases triggered the installation of nearby monitoring wells and analyzed.	A soil sample was collected from within the unit and Slight groundwater contamination; analyzed. Groundwater samples were collected from five wells (MW-104, 105, 106, 107, and 108) and analyzed.	Slight groundwater contamination; potential soil contamination
6. Aboveground Fuel-oil Storage Tanks	Visual evidence of releases to surface soil	Two near-surface soil samples were collected and analyzed.	Soil contamination present
/. Debris Area on North Side of Stream and historic drums		Two near-surface soil/sediment samples were collected and analyzed.	None Identified
o. Area Downgradient of Warehouse #1 (9,000 s.f. building)	Potential impacts associated with A groundwa material handling in the vicinity of the and anlyzed warehouse	A groundwater sample from MW-102 was collected. None Identified and anlyzed.	None Identified
9. Area Downgradient of Warehouse #2 (8,000 s.f. building)	Potential impacts associated with material handling in the vicinity of the warehouse	associated with Groundwater samples from three wells (MW-103, in the vicinity of the 104, and 202) were collected and analyzed.	None Identified





SECTION 3

PHASE III 3.0

W&C performed Phase III of the environmental assessment of the Portland Chemical Works site to further investigate those AOCs requiring further delineation following the Phase II investigation. The purpose of the Phase III investigation was to determine the nature and extent of the contamination observed during Phase II. These results will be used to develop a course of action and cost estimate for remediation to be presented in a subsequent Remedial Action Plan.

During the Phase II, elevated levels of TPH were observed in the soil at AOC #2 - the Loading Rack, and AOC #6 - the 275-gallon aboveground storage tanks. Low levels of chlorinated hydrocarbons were observed in the groundwater near AOC #5 - the chemical manhole. Each of these AOCs was further investigated during Phase III of the assessment and the nature and extent of contamination was delineated. The objective of the Phase III investigation was to quantify the amount of material (e.g. soil) requiring remediation at each of the three remaining AOCs. In addition, the physical nature of the "chemical manhole" unit was characterized, which in turn allowed W&C to develop the information needed to remediate this unit.

METHODOLOGY 3.1

On August 3, 1998, W&C collected a total of 41 additional soil samples at AOC #2, AOC #5, and AOC #6. Soil samples were collected by means of a Geoprobe, a direct-push sampling device that drives a 1inch diameter tube to the desired sampling depth. Samples were collected using stainless steel spoons and placed into sample jars and directly packed in ice for delivery to the laboratory. All samples were labeled and logged into the field logbook. All sampling equipment was decontaminated between samples using the USEPA-accepted three-step protocol. Quality Assurance / Quality Control (QA/QC) provisions included the collection of two duplicate samples.

Phase III sample locations for AOC #2, AOC #5, and AOC #6 are shown on Figures 3-1, 3-2, and 3-3, respectively. Locations were chosen in order to delineate the lateral and vertical extent of contamination warranting remediation in accordance with the Connecticut RSRs.

Zebra Environmental Corp. of Inwood, New York provided Geoprobe services. A summary of the work completed by Zebra is presented in Appendix C. Complete Environmental Testing, Inc. of Shelton, Connecticut analyzed all soil samples collected. All soil samples collected were analyzed for Total Petroleum Hydrocarbons (TPH) Method 418.1. One sample and a duplicate from the Chemical Manhole leach field were also analyzed for Volatile Organic Compounds (VOC) Method 8260.

RESULTS 3.2

Table 3-1 presents a summary of the soil sample analytical results for the Phase III investigation. The laboratory analytical data is presented in Appendix D.

AOC #2 - Twenty five soil samples were collected in the area of the loading rack in an attempt to delineate the lateral and vertical extent of TPH-contaminated soil. Six of these samples contained TPH concentrations above RSR Industrial/Commercial criteria for Direct Exposure (2500 ppm). Figure 3-4 depicts the sample locations and corresponding TPH concentrations. As shown, the highest concentrations are observed nearest the loading rack and along the pipe runs. As sample locations and the Control ower from the loading rack, soil sample concentrations decrease.

The vertical extent of the contamination appeared to be limited to the top two feet below ground surface, just above the clay which was encountered in the area between one and two feet below ground surface. The lateral extent of TPH contamination extends as far east as sample location 2S, and as far west as sample location 2J. The north/south limits of TPH contamination is assumed to be the exterior toe of the southern dike of the tank farm, and the northern toe of the railroad bed. These assumptions should be confirmed during remediation.

AOC #5 – As Figure 3-5 illustrates, no soil TPH concentrations were detected above the applicable RSR criteria of Direct Exposure in the area immediately surrounding the Chemical Manhole. However, during the Phase III investigation, it was observed that the chemical manhole appears to be connected to a leach field. Gravel and sand consistent with a leach field was observed in several of the Geoprobe borings, specifically, 5C, 5D, and 5E at a depth of approximately six to eight feet below ground surface. It has also been observed in the past that a floor drain located in the drum filling building is connected to the chemical manhole, apparently transporting all historic spills and washdown in the drum filling building to this leach field.

The leach field has been determined to extend approximately ten feet east and ten feet west of the chemical manhole through boring sample observations. For the purpose of volume calculations, it is assumed that the leach field also extends ten feet north and ten feet south of the chemical manhole as well, and is constructed in the shape of a square with the chemical manhole located directly in the center.

Elevated levels of chlorinated hydrocarbons and solvents were detected in the groundwater in the area of the chemical manhole. Since cis-1,2 dichloroethylene and vinyl chloride were detected in the soil sample collected at location 5D within the leach field, the leach field is considered to be the probable source of the elevated levels of VOCs observed in the groundwater.

AOC #6 – TPH concentrations exceeded RSR Industrial /Commercial Criteria for Direct Exposure for at two of the six samples collected near the 275-gallon aboveground storage tanks. Figure 3-6 illustrates the extent of soil staining observed at AOC #6, the approximate area requiring removal. The depth of soil contamination exceeding applicable RSR criteria was found to range from four feet on the eastern edge to eight feet on the western edge of the stained soil area.

3.3 DISCUSSION

TPH-contaminated soil has been observed in the area of the Loading Rack, AOC #2, and the lateral extent has been defined to extend approximately 100 feet from sample location 2J to 2S and 25 feet from the toe of the tank farm dike to the toe of the railroad bed. The depth of soil exceeding RSR criteria is estimated at two feet. This results in an estimated volume of soil requiring remediation of 185 cubic yards (approximately 280 tons) in the area of the Loading Rack.

Observations of the soil borings collected near the Chemical Manhole, AOC #5, indicate the presence of a leach field approximately six to eight feet below the ground surface. The leach field appears to extend approximately 10 feet east and 10 feet west of the manhole and is assumed to extend a similar distance north and south of the manhole. Elevated levels of cis-1,2 dichloroethylene and vinyl chloride detected in soil sample 5D from a depth of 4-8 feet indicate that the leach field is the probable source of elevated solvent concentrations detected in the groundwater during Phase II. Based on these results, W&C anticipates the removal of the leach field and associated soil (approximately 180 tons) in the area of the Chemical Manhole, AOC #5.

TPH-contaminated soil has been observed in the area of the aboveground storage tanks, AOC #6. The lateral and vertical extent of contamination requiring remediation has been defined. Approximately 200 square feet of area will require soil removal to an average depth of six feet. Consequently, W&C anticipates approximately 70 tons of soil will require removal in the area of the aboveground storage tanks, AOC #6.

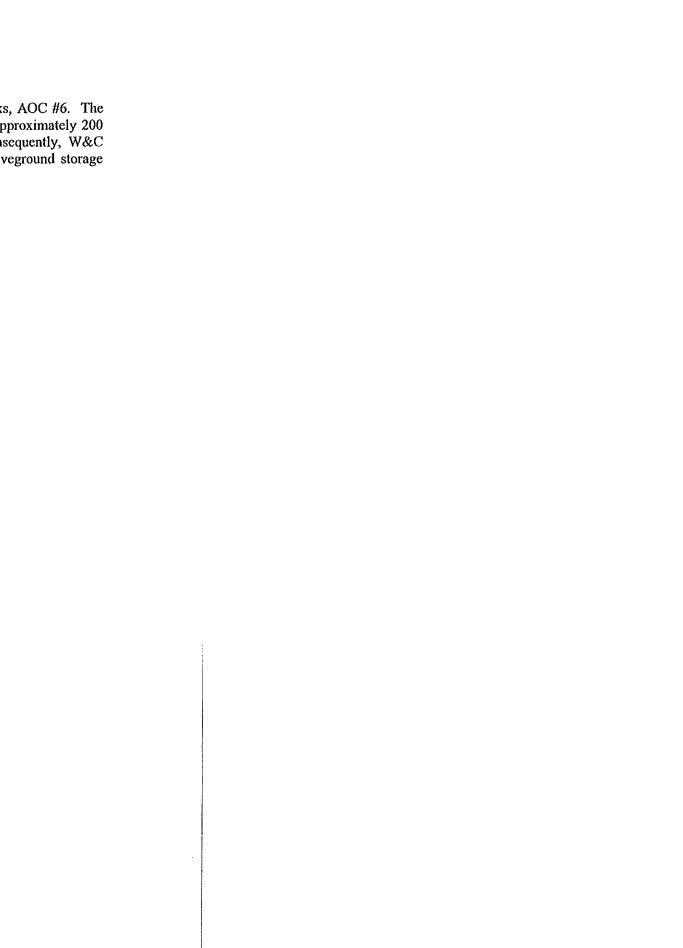
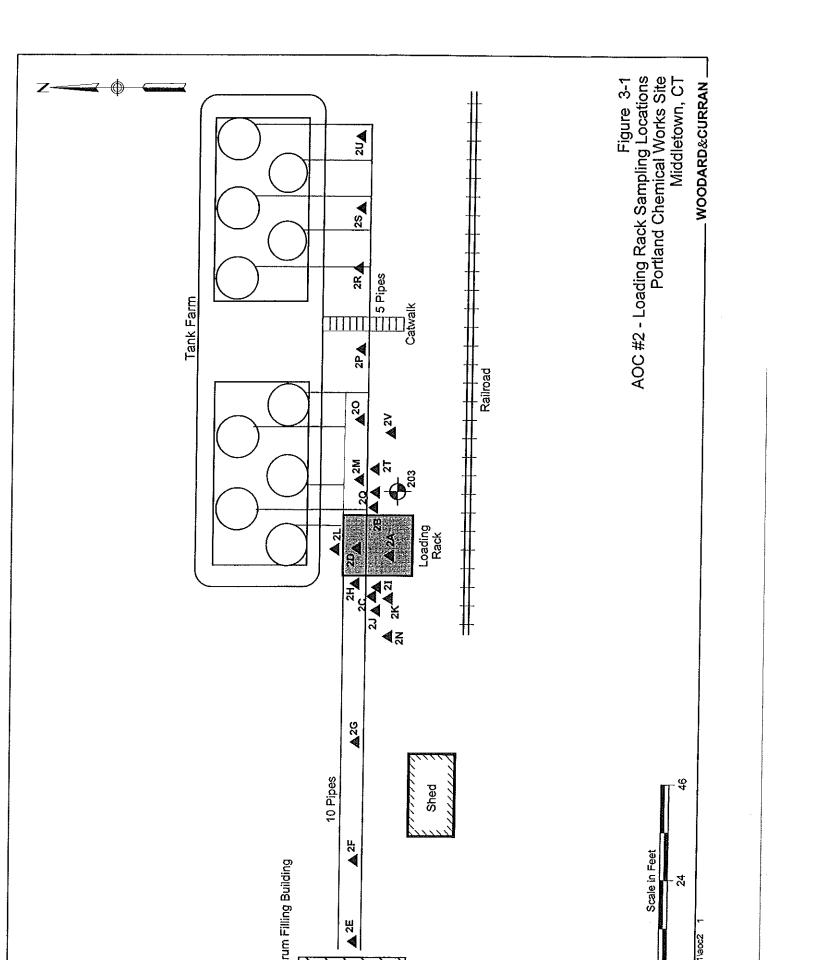
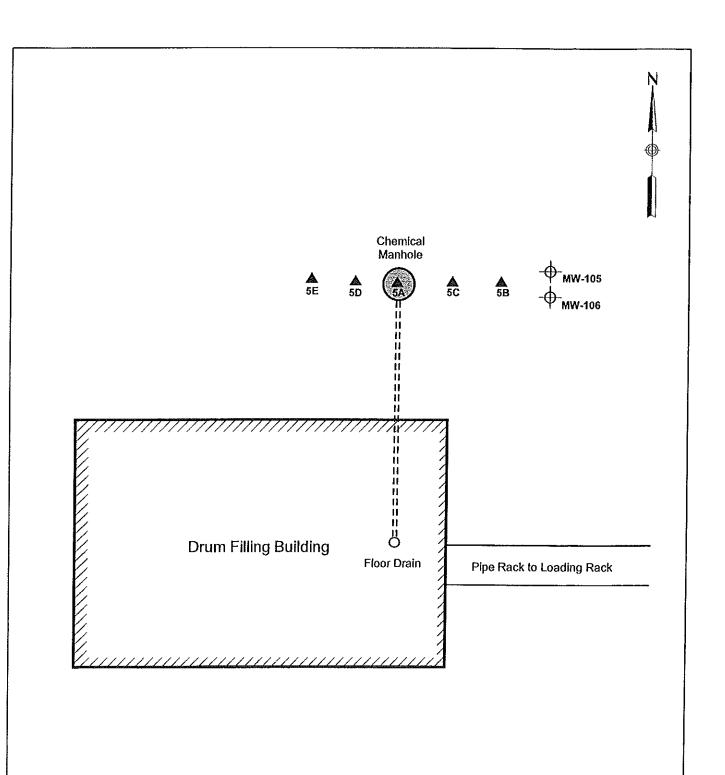


TABLE 3-1
PHASE III SOIL SAMPLING RESULTS

	DEPTH	ТРН	VOLATILES
	(FT.)	(ppm)	(ppb)
Detection Limit		50	
RSR Industrial/Commercial Direct Exposure		2500	
AOC #2 LOADING RACK			
2E	0 - 4	260	N/A
2F	0 - 4	88	N/A
2G	0 - 4	140	N/A
	0.41	9200	N/A
2I	0 - 4	65	N/A
21	4 - 8	ND	N/A
2Ј	0 - 4	92	N/A
2 J	4 - 8	ND	N/A
2K	0 - 4	140	N/A
2К	4 - 8	ND	N/A
$2\mathrm{h}$	0.4	2600	N/A
machina a mar 2M mar a sa canada	0=4	10000	N/A
2N	0 - 4	120	N/A
. 2N	4 - 8	ND	N/A
Company of the 20 to the company of the	17,05425	-5100	N/A
	2 0 4 4 2 C	6700	N/A
2Q	0 - 4	1400	N/A
2Q	4 - 8	ND	N/A
	\$70.4	3800	N/A
28	0 - 4	1100	N/A
2T	0-4	640	N/A
2T	4 - 8	75	N/A
2U	0 - 4	670	N/A
. 2Y	0-4	520	N/A
2 V	4 - 8	ND	N/A
AOC #5 CHEMICAL MANHOLE			
5B	0 - 4	57	N/A
5B	4-8	ND	N/A
5C	0 - 4	58	N/A
5C	4 - 8	ND	N/A
5D	0 - 4	130	
5D	4 - 8	530	Cis-1,2 dichloroethylene (110) Vinyl Chloride (13)
5E	0 - 4	59	N/A
5E	4-8	ND ND	N/A
AOC #6 ABOVEGROUND TANKS		214	IVA
6C	0-4	1600	N/A
oc	7 4 8 °	2700	N/A
$\frac{0}{60}$	0-4	27000 =	N/A
6D	4 - 8	870	N/A N/A
6E	0-4	710	
6E	4-8	74	N/A
VE	0	/**	N/A









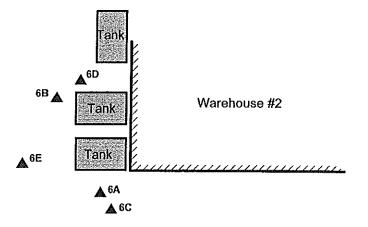
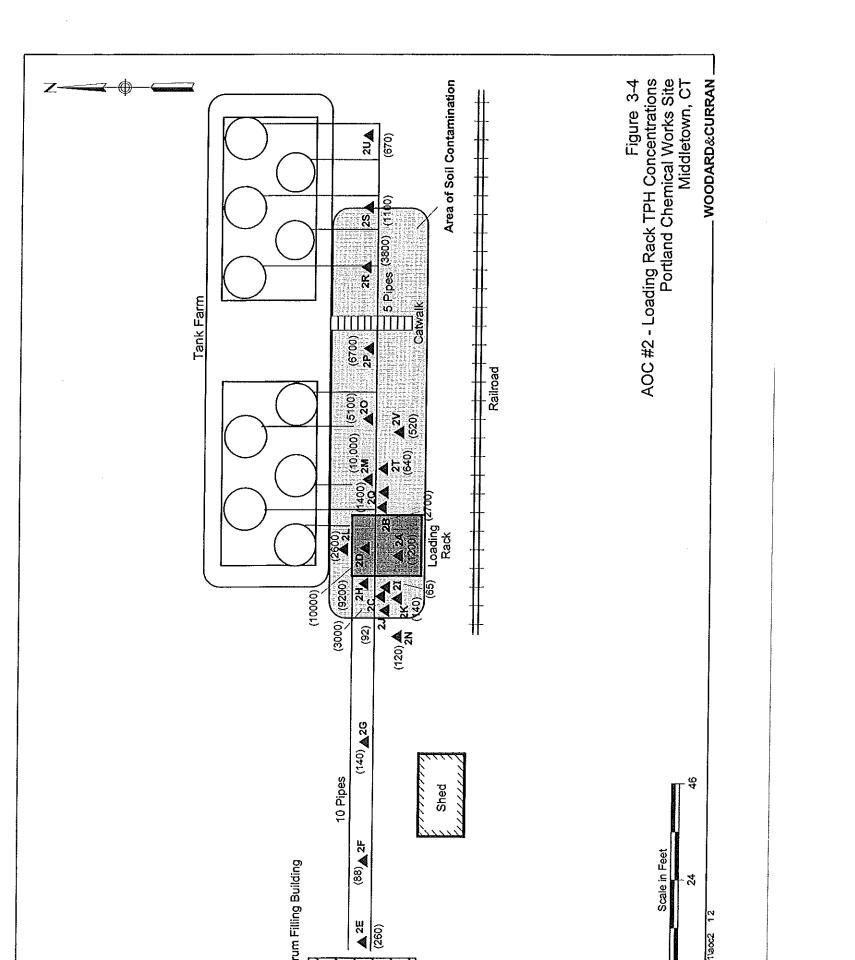
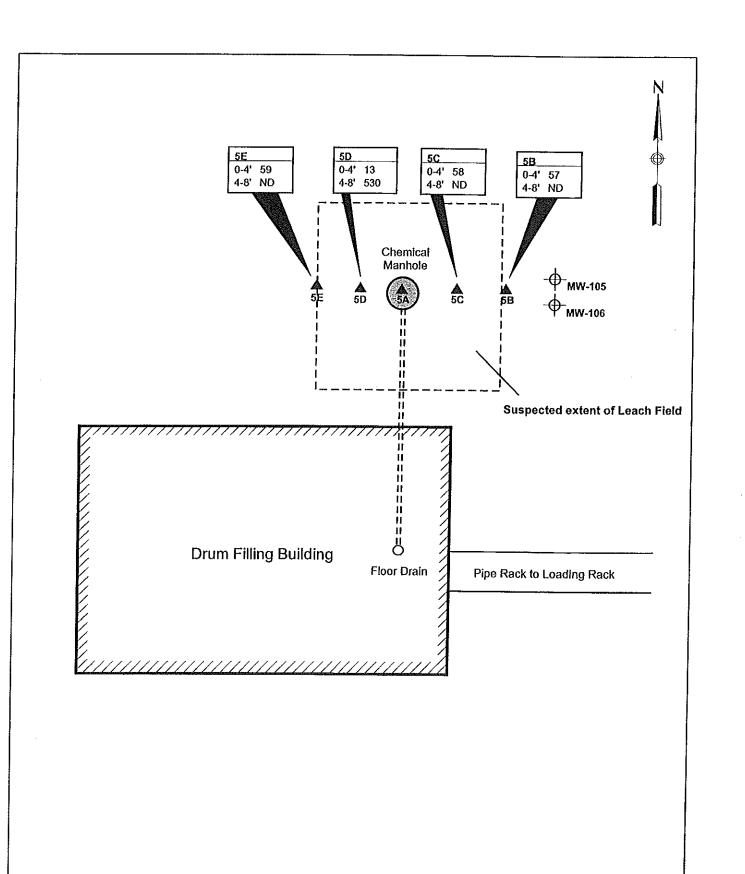


Figure 3-3
AOC #6 - Aboveground Storage Tanks
Sampling Locations
Portland Chemical Works Site







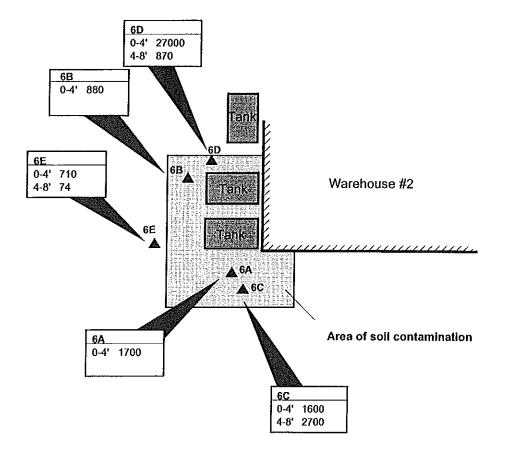


Figure 3-6
AOC #6 - Aboveground Storage Tanks
TPH Concentrations
Portland Chemical Works Site

Scale in Feet

SECTION 4

4.0 CONCLUSIONS

W&C has completed Phases II and III of the Environmental Site Assessment at the former Portland Chemical Works site located at 680 Newfield Street, Middletown, Connecticut, for the City of Middletown. The purpose of the Phase II and III investigations was to determine the presence or absence of subsurface contamination, and to delineate the nature and extent of any contamination present at the nine separate Areas of Concern (AOCs) identified in the Phase I Report (June 1998).

In order to determine what constituted "contamination" at the site, the investigation had to determine which of the Connecticut Remediation Standard Regulations (RSR) criteria were applicable, and which of these were exceeded. The results of the investigation were evaluated with respect to all five of the CT RSR criteria. The resulting conclusions are summarized below.

- Industrial/Commercial Direct Exposure Criteria for soil This criteria was exceeded for TPH in two of the three AOCs which warrant remediation, and will be the remediation "driver" in these areas.
- Pollutant Mobility Criteria for soil This criteria was not exceeded in any of the samples analyzed, and is not considered to be an issue at the site.
- Groundwater Protection Groundwater at the site is classified GB. The RSR groundwater protection criteria do not apply to GB groundwater.
- Industrial/Commercial Volatilization Criteria for groundwater Vinyl chloride detected in the groundwater at one well location, MW-106, exceeded the RSR Volatilization Criteria. This criteria applies to groundwater located beneath a building where volatile organic compounds could travel through the overlying soil, enter the building, and endanger the occupants. The "exceedance" in this case does not technically apply since there is no building at this location, and further action is not warranted at this time. If future plans call for construction of a building in this area, engineering controls could easily be put in place for a relatively low cost.
- Surface Water Protection Criteria Groundwater at the site was shown to meet this criteria. Two of
 the monitoring wells (MW-203 and MW-204) are located between the on-site stream and the areas
 where low-level contamination was identified. Groundwater samples from these wells contained no
 detectable levels of RSR constituents.

These conclusions show that groundwater does not require remediation at the site, and that remediation will be targeted at removing contaminated soil.

During the Phase II Assessment, near-surface soil and sediment samples were collected and analyzed, four soil borings/monitoring wells were installed, and all twelve new and existing monitoring wells were sampled and analyzed. As a result of the Phase II investigation, three of the nine AOCs identified in the Phase I Report were found to have contamination issues warranting a Phase III delineation study. Those three AOCs are:

- AOC #2 the Loading Rack,
- AOC #5 the Chemical Manhole, and
- AOC #6 the 275-Gallon Aboveground Storage Tanks.

The Phase II investigation also found that although detectable levels of some organic compounds were observed in the groundwater, groundwater contamination was not a remediation issue because no applicable RSR criteria were exceeded. It appears that groundwater may have been somewhat protected against contamination by on-site activities by a sub-surface clay layer which acts as a barrier to contaminant migration.

During the Phase III investigation, the above-mentioned AOCs were further investigated in an attempt to delineate the extent of soil contamination at each area. The conclusions of this investigation are detailed below.

AOC #2 - Loading Rack: Several soil samples collected and analyzed were found to exceed RSR Direct Exposure Criteria for Total Petroleum Hydrocarbons (TPH). The contamination was observed to run along the pipe rack and decrease with distance from the loading rack area. The extent of TPH contamination was found to extend from just west of the loading rack area to approximately twenty feet east of the catwalk (bridge) and from the toe of the tank farm dike to the toe of the railroad bed. The vertical extent of the contamination is approximately two feet below ground surface to the top of the underlying clay layer.

W&C estimates the total volume of contaminated soil in this area to be 185 cubic yards (approximately 280 tons). This material would likely warrant removal and disposal. This remediation will be addressed in detail in the pending Remedial Action Plan.

AOC #5 – Chemical Manhole: Groundwater in the area of the chemical manhole contained slightly elevated levels of chlorinated hydrocarbons and solvents. The series of existing monitoring wells appear to delineate the extent of this contamination and show that the contamination is confined to a small area near the chemical manhole. It should be noted that this "contamination" does not exceed any applicable RSR criteria, and would exceed the volatilization criteria only if a building was placed over this area. In that event, the issue could be easily addressed through engineering controls.

Phase III investigations identified the presence of a leach field approximately six to eight feet directly below the chemical manhole and assumed to extend in all four directions away from the manhole. Soil sample results indicate the presence of TPH and low levels of VOCs. The leach field is the probable source of VOCs identified in the groundwater, as vinyl chloride and cis-1,2 dichloroethylene were detected in a soil sample collected from the leach field.

Materials associated with the leach field which warrant remediation consist of the leach field itself and associated soil. The extent of the leach field is estimated at 400 square feet with a depth of 8 feet. The estimated total volume of material to be addressed at the chemical manhole location is 120 cubic yards (approximately 180 tons). This will be described in further detail in the pending Remedial Action Plan.

<u>AOC #6 — Aboveground Storage Tanks:</u> Several soil samples collected from the area near the aboveground storage tanks were found to exceed RSR Direct Exposure Criteria for Total Petroleum Hydrocarbons (TPH). The area of contamination appeared to coincide with the visible staining observed on the ground surface, with the vertical extent ranging from four feet on the eastern edge to eight feet on the western edge.

W&C estimates the total volume of soil in the area of these tanks requiring remediation to be 45 cubic yards (approximately 67 tons). This issue will be addressed in further detail in the pending Remedial Action Plan.

This Phase II and Phase III Environmental Site Assessment was performed to investigate potential concerns associated with contamination of the soil and /or groundwater only. Although not discussed in this report, demolition/removal of tanks, piping, and associated materials is understood to be required as part of site remediation activities and will be included in the pending Remedial Action Plan.

APPENDIX

APPENDIX A

MONITORING WELL LOGS

WOODARD & CURRAN (98053.01)

8/18/98

CLIENT: WOODWARD & CURRAN

PROJECT NAME: 680 NEWFIELD ST

LOCATION: MIDDLETOWN, CT

DRILLER: J. Yarrow

INSPECTOR: F. Larsen

DATE START: 7-1-98

NEW ENGLAND BORING CONTRACTORS OF CT., INC.



129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 -- (413) 733-1232 FAX (860) 657-8046

TYPE HSA SIZE I.D. 4-1/4"

HAMMER WT.

Sampler SS 1-3/8" 140 Core Barrel

BORING No. MW-201

SHEET 1 OF 1

ARCHITECT/ ENGINEER

FILE NO. W&CMIDDL

SURFACE ELEV.

LINE & STATION

	31AIII: 7-1-30			HAMMER FALL		. 30"	L ENAE G	LINE & STATION			
DATE	TE FINISH: 7-1-98						OFFSET				
	r	SAI	MPLE				CASING BLOWS/ CORING TIMES				
No.	DEPTH RANGE IN FEET		BLOW:	S PER 6' AMPLER	•	REC.	CORING	FIELD CLASSIFICATION AND REMARKS		Well Cons.	Installation Details
140.	IN FEET	0-6	6-12	12-18	18-24	nec.	PER FT.			Cons.	Details
	01.01										
S1	0'-2'	1	1	2	2	20"		Red/Brown Silt, Little Fine - Medium Sand			
S2	2'-4'	1	2	1	1	22"					
S 3	4'-6'	2	3	6	9	22"		Bad/Davin Clay Care City	4		
		1				1		Red/Brown Clay, Some Silt			
S4	6'-8'	7	9	11	13	0"					
						i					•
S 5	10'-12'	3	4	7	9	18"					
33	10-12	3	4	′	9	10					
S6	15'-17'	3	5	4	7	24"					
									10		
		1						End of Boring @ 8' Water @ 8' + /-	18		
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				than t	may occur i hose preser nts were ma	due to factor nt at the time ade.	e meas-	in it is a second of the seco			
								<u> </u>			<u> </u>

CLIENT: WOODWARD & CURRAN

PROJECT NAME: 680 NEWFIELD ST

LOCATION: MIDDLETOWN, CT

DRILLER: J. Yarrow

INSPECTOR: F. Larsen

DATE START: 7-1-98

DATE FINISH: 7-1-98

NEW ENGLAND BORING CONTRACTORS OF CT., INC.



129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 -- (413) 733-1232 FAX (860) 657-8046

TYPE SIZE I.D. Casing HSA

Sampler SS

Core Barrel

SURFACE ELEV.

OFFSET

LINE & STATION

BORING No. MW-202

SHEET 1 OF 1

FILE NO. W&CMIDDL

ARCHITECT/ ENGINEER

4-1/4" 1-3/8" HAMMER WT. 140 HAMMER FALL 30"

DATE FINISH. 7-1-30				L		Lorenza	T OFI	OFFSET			
	SAMPLE DEPTH BLOWS PER 6*				Υ	CASING BLOWS/ CORING					
	NI.	DEPTH RANGE		ON S	s per 6" Ampler	-	REC. TIM	CORING	FIELD CLASSIFICATION AND REMARKS	Well	Installation
١.	No.	IN FEET	0-6		12-18		REC.	TIMES PER FT.		Cons.	Details
			<u> </u>		1 .~ 10		 	r CR FT.		+	
1	S1	0'-2'	8	21	25	26	12"		Red/Brown, Fine - Medium Sand, Little Fine		Roadway Box
	S2	2'-4'	16	8	7	11	13"		Gravel, Little Silt		10' of 2" PVC
Ì	ا "		'Ŭ	ŭ	,		13		D-1/0	3 .	Riser
١	\$3	4'-6'	2	6	4	4	14"		Red/Brown Clay		2' Bentonite
		0.01	_	-	_						Chip Seal
١.	S4	6'-8'	5	5	7	10	0"				1
	S5	8'-10'	4	4	4	6	24"				
, i			•	•							
	\$6	10'-12'	2	4	3	4	24"				10' of .010
1	6.7	101 141	4	-		_	000			: :	Slot 2" PVC
ſ	S7	12'-14'	4	5	4	5	22"				Screen
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	S8	15'-17'	2	3	3	4	24"				NJ #2 Sand
Ì										:: ::	
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		}									
	S9	20'-22'	6	7	7	7	6"				Bottom of Well
ı								ļ	2		@ 20'
, 1		i						j	End of Boring @ 22'	1	~ = -
						i			Water @ 4' + /-]
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ŧ	NOTES:		Enes repre	sent the	2) Water	level readin	gs have bee	en made F	REMARKS:		1.2
,		approximate bou types. Iransition	ndary betw is may be i	reen soil gradual.	in the conditi	drill holes a ons stated o	t times and on the borin	under ng logs.			
1		,			Fluctua	stions in th	e level of	ground-			

Fluctuations in the level of ground-water may occur due to factors other than those present at the time meas-urements were made.

CLIENT: WOODWARD & CURRAN

PROJECT NAME: 680 NEWFIELD ST

LOCATION: MIDDLETOWN, CT

DRILLER: J. Yarrow

INSPECTOR: F. Larsen

DATE START: 7-1-98

NEW ENGLAND BORING CONTRACTORS OF CT., INC.



129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 -- (413) 733-1232 FAX (860) 657-8046

TYPE SIZE I.D. HAMMER WT.

Casing HSA 4-1/4" Sampler SS

Core Barrel

1-3/8" 140# 30"

BORING No. MW-203

SHEET 1 OF 1

ARCHITECT/ ENGINEER

FILE NO. W&CMIDDL

SURFACE ELEV.

	DATE START: 7-1-98		HAMMER WT. HAMMER FALL		140# . 30"	LINE & STATION						
,	DATE	FINISH: 7-1		MPLE						OFFS	ET	
	<u> </u>	DEPTH			S PER 6'			CASING BLOWS/ CORING TIMES PER FT.	FIELD CLASSIFICATION AND REMARKS		Well	Installation
ٔ ا	No.	DEPTH RANGE IN FEET	0-6	6-12	12-18	18-24	REC.	TIMES PER FT.	LIFER GENORILIES HOM MAD REMARKS		Cons.	Details
	S1	0'-2'	4	1	3	1	2"		Black Organic Silt			
	S2	2'-4'	4	3	6	7	18"		Red Brown Clay, Some Silt	2		Locking Protector Pipe
-	S3	4'-6'	3	3	3	4	24"		ned Brown Clay, Some Silt		<u> </u>	5' of 2" PVC Riser
	S4	6'-8'	4	4	5	5	24"				: : :	1' Bentonite
ĺ				7	3	3	24			i		Chip Seal 10' of .010
-	0.5	401.404									[:書:]	Slot 2" PVC Screen
į	S5	10'-12'	1	2	2	3	24"	ŀ				NJ #2 Sand
								-		13		
									End of Boring @ 13' Water @ Surface			Bottom of Well @ 13'
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NO	TES;	1) The stratification (ines represer	nt the	2) Water le	vel jestin	have been	nada DE	MARKS:			
		approximate boun types. Transitions	dary betwee	n soit	in the di	rill holes at 1 as stated on	have been of times and uithe boring to level oligio	nder oos	IVMBRO.		,	:
			!		water mu than tho:	ry occur due se present a	to factors of tithe time or	ther		. ,		:
	urements were made.								<u> </u>	iandi. Markananan		art and a second

CLIENT: WOODWARD & CURRAN

PROJECT NAME: 680 NEWFIELD ST

LOCATION: MIDDLETOWN, CT

DRILLER: J. Yarrow

INSPECTOR: F. Larsen

DATE START: 7-1-98

DATE FINISH: 7-1-98

SAMPLE

No. DEPTH BLOWS PER 6"
ON SAMPLER

ON SAMPLER

ON SAMPLER

ON SAMPLER

ON SAMPLER

ON SAMPLER

ON SAMPLER

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ON SAMPLER

NEW ENGLAND BORING CONTRACTORS OF CT., INC.

129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 ·· (413) 733-1232

FAX (860) 657-8046

TYPE SIZE I.D. HAMMER WT. Casing Sampler Core Barret HSA SS 4-1/4" 1-3/8" 140 BORING No. MW-204 SHEET 1 OF 1

ARCHITECT/ ENGINEER

FILE NO. W&CMIDDL

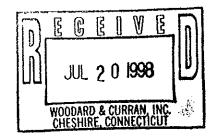
SURFACE ELEV.

1	START: 1-I						MMER WT. MMER FALI	140 - 30"	LINE	AOITATS &	l
DATE	DATE FINISH: 7-1-98 SAMPLE				. ,, ,,			OFFS	ET		
<u> </u>	DEPTH RANGE	SAI	BLOWS	PER 6"	PER 6" CASING BLOWS/		CASING BLOWS/ CORING	FIELD CLASSIFICATION AND REMARKS		Well	Installation
No.	IN FEET	0-6		MPLER 12-18	18-24	REC.	TIMES PER FT.	TIELD GENOSII IOATION AND REIWARKS		Cons.	Details
S1	0'-2'	1	2	4	5	15"		Red/Brown Silt, Little Fine Sand, Trace of Fin			Locking
S2	2'-4'	4	4	4	4	20"		Gravel Gravel	G		Protector Pipe
S3	4'-6'	2	3	2	1	10"					6' of 2" PVC Riser
S4	6'-8'	1	1	7	10	24"		Red/Brown, Fine - Medium Sand, Some Silt	6		2' Bentonite Chip Seal
S5	8'-10'	4	5	6	6	3"		Red/Brown Clay, Some Silt			10' of .010 Slot 2" PVC
S6	10'-12'	3	4	4	5						Screen
S 7	12'-14'	5	6	8	10	18"					NJ #2 Sand
								End of Boring @ 14' Water @ 4' + /-	14		Bottom of Well
	į							Water @ 4' + /-			@ 14'
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NOTES:	1) The stratification approximate bour	viary between	en soil	in the d	iil holes at	s have been times and	under	EMARKS:		·	
	types. Transitions may be gradual. conditions stated on the boring logs. Fluctuations in the level of ground- water may occur due to factors other						logs. round- other				ĺ
				than tho	se present s were mad	at the time	meas-				

APPENDIX B

PHASE II ANALYTICAL RESULTS





Tel: (203) 925-1133 Fax: (203) 925-1140 e-mail: comenvtst@aol.com

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484

July 7, 1998

Mr. Fred Larsen Woodard & Curran 515 Highland Ave. Cheshire, CT 06410

RE: Analysis of 18 soil and 2 water samples collected 7/1 &

7/2/98.

PROJECT: 98053.01, Middletown

CET #: 98-4560

The samples were analyzed for the parameters listed on the following pages.

Please call us if you have any questions.

David Ditta

Laboratory Director

Total Metals:	AOC1C	AOC1D	AOC7A	AOC7B
Pb	5.9	8.3	11	28
Cd	ND<1.0	ND<1.0	ND<1.0	1.5
Cr	12	14	20	20
As	ND<2.0	ND<2.0	ND<2.0	3.4
Se	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hg	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Ba	75	620	120	78
Ag	ND<2.0	ND<2.0	ND<2.0	
Cu	12	15	12	ND<2.0
Ni	14	15	16	23
SPLP Metals:	7.7	1.0	10	16
Pb	ND<0.013	ND<0.013	ND<0.013	ND 40 012
Cd	ND<0.015	ND<0.013	ND<0.013	ND<0.013
Cr	ND<0.05	ND<0.003		ND<0.005
As	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Se	ND<0.03	ND<0.03	ND<0.05	ND<0.05
Hg	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Ba	0.49	0.58	ND<0.002 0.38	ND<0.002
Āg	ND<0.02	ND<0.02		0.32
Cu	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Ni	ND<0.05	ND<0.05	ND<0.05	ND<0.05
TPH (418.1)	<50	(50.05	ND<0.05	ND<0.05
Cyanide	ND<5.0	ND<5.0	<50	87
Cyaniae	ир/3.0	ט, פאעא	ND<5.0	ND<5.0
Total Metals:	AOC1E	Duplicate	AOC5	MW202-S3
Pb	7.6	29	20	6.0
Cd	ND<1.0	1.7	ND<1.0	ND<1.0
Cr	15	12	310	19
As	ND<2.0	2.1	ND<2.0	3.6
Se	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hg	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Ba	92	92	47	130
Ag	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Cu	15	21	82	20
Ni	17	12	11	23
SPLP Metals:				40
Pb	ND<0.013	ND<0.013	ND<0.013	ND<0.013
Cd	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Cr	ND<0.05	ND<0.05	0.07	ND<0.05
As	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Se	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Hg	ND<0.002	ND<0.002	ND<0.002	ND<0.01
Ba	1.4	0.37	0.46	0.69
Ag	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Cu	ND<0.05	ND<0.05	ND<0.02	ND<0.02
Ni	ND<0.05	ND<0.05	ND<0.05	ND<0.05
TPH (418.1)	<50	70	71	<50
Cyanide	ND<5.0	ND<5.0	ND<5.0	ND<5.0
-		\ 0 0	טו עו עוג	MD/3.0

<u>Total Metals:</u>	AOC6A	AOC6B	AOC2A	AOC2B
Pb	10	81	33	37
Cd	ND<1.0	1.4	2.4	2.1
Cr	10	13	19	23
As	ND<2.0	7.8	4.6	2.7
Se	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hg	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Ba	68	89	120	180
Ag	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Cu	58	32	64	73
Ni	17	19	25	34
<u>SPLP Metals:</u>				
Pb	ND<0.013	ND<0.013	ND<0.013	ND<0.013
Cd	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Cr	ND<0.05	ND<0.05	ND<0.05	ND<0.05
As	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Se	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Hg	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Ba	0.40	0.49	0.31	0.31
Ag	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Cu	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Ni	ND<0.05	ND<0.05	ND<0.05	ND<0.05
TPH (418.1)	1700	880	1200	2700
Cyanide	63	ND<5.0	ND<5.0	ND<5.0
Total Metals:	AOC2C	AOC2D	30013	AOG1D
Pb	27	97	<u>AOC1A</u> 6.1	AOC1B
Cď	1.5	2.3	ND<1.0	6.5
Cr	21	32	10	ND<1.0 11
As	ND<2.0	8.9	ND<2.0	
Se	ND<1.0	ND<1.0	ND<2.0 ND<1.0	ND<2.0
Hg	ND<0.20	ND<0.20	ND<1.0 ND<0.20	ND<1.0
Ba	180	390	61	ND<0.20
Ag	ND<2.0	ND<2.0	ND<2.0	99 ND<2.0
Cu	76	71	11	
Ni	27	28	12	19
SPLP Metals:	64 <i>y</i>	20	12	14
Pb	ND<0.013	ND<0.013	ND<0.013	ND<0.013
Cd	ND<0.005	ND<0.005	ND<0.013	
Cr	ND<0.05	ND<0.05	ND<0.005	ND<0.005
As	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Se	ND<0.01	ND<0.03	ND<0.03	ND<0.05
Нg	ND<0.002	ND<0.01		ND<0.01
Ва	0.40	0.35	ND<0.002	ND<0.002
Ag	ND<0.02	ND<0.02	0.46	0.49
Cu	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Ni	ND<0.05	ND<0.05	ND<0.05	ND<0.05
TPH (418.1)	3000	10000	ND<0.05	ND<0.05
Cyanide	ND<5.0		<50	<50
O I all I all	11D/9.0	ND<5.0	ND<5.0	ND<5.0

Total Metals:	MW204-S3	MW203-83	Trip Blank	Por Dianie
Pb	7.9	6.7	ND<2.0	Eq. Blank ND<2.0
Cd	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Cr	13	20	ND<2.0	ND<2.0
As	ND<2.0	2,1	ND<2.0	ND<2.0
Se	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hg	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Ba	55	140	ND<2.0	ND<2.0
Ag	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Cu	8.9	17	ND<2.0	ND<2.0
Ni	12	22	ND<2.0	ND<2.0
SPLP Metals:				
Pb	ND<0.013	ND<0.013		
Cd	ND<0.005	ND<0.005		
Cr	ND<0.05	ND<0.05		— —
As	ND<0.05	ND<0.05		
Se	ND<0.01	ND<0.01		
Hg	ND<0.002	ND<0.002		
Ba	0.38	0.38		
Ag	ND<0.02	ND<0.02		
Cu	ND<0.05	ND<0.05		
Ni	ND<0.05	ND<0.05		
TPH (418.1)	<50	< 50	<0.50	<0.50
Cyanide	ND<5.0	ND<5.0	ND<0.10	ND<0.10

CLIENT: Woodard & Curran PROJECT #: 98053.01 CET #: 98-4560

MATRIX: soil

	AOC1A	AOC1B	AOC1C	DETECTION LIMIT
BENZENE	ND	ND	ND	5.0
BROMOBENZENE	ND	ND	ND	10.0
BROMOCHLOROMETHANE	ND	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	ND	5.0
BROMOFORM	ND	ND	ND	10.0
BROMOMETHANE	ND	ND	ND	25.0
n-BUTYLBENZENE	ND	ND	ND	5.0
sec-BUTYLBENZENE	ND	ND	ND	5.0
tert-BUTYLBENZENE	ND	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	ND	5.0
CHLOROBENZENE	ND	ND	ND	5.0
CHLOROETHANE	ND	ND	ND	25.0
CHLOROFORM	ND	ND	ND	5.0
CHLOROMETHANE	ND	ND	ND	25.0
2-CHLOROTOLUENE	ND	ND	ND	5.0
4-CHLOROTOLUENE	ND	ND	ND	5.0
DIBROMOCHLOROMETHANE	ND	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	10.0
1,2-DIBROMOETHANE	ND	ND	ND	5.0
DIBROMOMETHANE	ND	ND	ND	10.0
1,2-DICHLOROBENZENE	ND	ND	ND	5.0
1,3-DICHLOROBENZENE	ND	ND	ND	5.0
1,4-DICHLOROBENZENE	ND	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	25.0
1,1-DICHLOROETHANE	ND	ND	ND	5.0
1,2-DICHLOROETHANE	ND	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	ND	5.0
cis-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01 CET #: 98-4560

MATRIX: soil

1,2-DICHLOROPROPANE	AOC1A ND	AOC1B ND	AOC1C	DETECTION LIMIT
1,3-DICHLOROPROPANE	ND	ND ND	ND ND	5.0
2,2-DICHLOROPROPANE	ND	ND	ND ND	5.0
1,1-DICHLOROPROPENE	ND	ND	ND ND	5.0
ETHYLBENZENE	ND	ND	ND ND	5.0
HEXACHLOROBUTADIENE	ND	ND	ND ND	5.0
ISOPROPYLBENZENE	ND	ND	ND	5.0
4-ISOPROPYLTOLUENE	ND	ND	ND	5.0
METHYLENE CHLORIDE	ND	ND	ND	5.0
NAPHTHALENE	ND	ND	ND	10.0
n-PROPYLBENZENE	ND	ND	ND	5.0
STYRENE	ND	ND	ND ND	5.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	5.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	5.0
TETRACHLOROETHYLENE	ND	ND	ND	5.0
TOLUENE	ND	ND	ND	5.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	5.0 5.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	5.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	5.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	5.0
TRICHLOROETHYLENE	ND	ND	ND	5.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	5.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	5.0
1,2,4-TRIMETHYLBENZENE	ND	ND	20	
1,3,5-TRIMETHYLBENZENE	ND	ND	8.2	5.0
VINYL CHLORIDE	ND	ND	ND	5.0
o-XYLENE	ND	ND	ND	10.0
m+p-XYLENES	ND	ND	16	5.0
MTBE	ND	ND	ND	5.0 10.0
		- ·	2125	TA.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil

	AOC1D	AOC7A	AOC7B	DETECTION LIMIT
BENZENE	ND	ND	ND	5.0
BROMOBENZENE	ND	ND	ND	10.0
BROMOCHLOROMETHANE	ND	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	ND	5.0
BROMOFORM	ND	ND	ND	10.0
BROMOMETHANE	ND	ND	ND	25.0
n-BUTYLBENZENE	ND	ND	ND	5.0
sec-BUTYLBENZENE	ND	ND	ND	5.0
tert-BUTYLBENZENE	ND	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	ND	5.0
CHLOROBENZENE	ND	ND	ND	5.0
CHLOROETHANE	ND	ND	ND	25.0
CHLOROFORM	ND	ND	ND	5.0
CHLOROMETHANE	ND	ND	ND	25.0
2-CHLOROTOLUENE	ND	ND	ND	5.0
4-CHLOROTOLUENE	ND	ND	ND	5.0
DIBROMOCHLOROMETHANE	ND	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	10.0
1,2-DIBROMOETHANE	ND	ND	ND	5.0
DIBROMOMETHANE	ND	ND	ND	10.0
1,2-DICHLOROBENZENE	ND	ND	ND	5.0
1,3-DICHLOROBENZENE	ND	ND	ND	5.0
1,4-DICHLOROBENZENE	ND	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	25.0
1,1-DICHLOROETHANE	ND	ND	ND	5.0
1,2-DICHLOROETHANE	ND	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	ND	5.0
cis-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil

1,2-DICHLOROPROPANE	AOC1D ND	AOC7A ND	AOC7B ND	DETECTION LIMIT 5.0
1,3-DICHLOROPROPANE	ND	ND	ND	5.0
2,2-DICHLOROPROPANE	ND	ND	ND	5.0
1,1-DICHLOROPROPENE	ŅD	ND	ND	5.0
ETHYLBENZENE	ND	ND	ND	5.0
HEXACHLOROBUTADIENE	ND	ND	ND	5.0
ISOPROPYLBENZENE	ND	ND	ND	5.0
4-ISOPROPYLTOLUENE	ND	ND	ND	5.0
METHYLENE CHLORIDE	ND	ND	ND	10.0
NAPHTHALENE	ND	ND	ND	5.0
n-PROPYLBENZENE	ND	ND	ND	5.0
STYRENE	ND	ND	ND	5.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	5.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	5.0
TETRACHLOROETHYLENE	ND	ND	ND	5.0
TOLUENE	ND	ND	ND	5.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	5.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	5.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	5.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	5.0
TRICHLOROETHYLENE	ND	ND	ND	5.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	5.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	5.0
1,2,4-TRIMETHYLBENZENE	ND	ND	ND	5.0
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	5.0
VINYL CHLORIDE	ND	ND	ND	10.0
O-XYLENE	ND	ND	ND	5.0
m+p-XYLENES	ND	ND	ND	5.0
MTBE	ND	ND	ND	10.0

CLIENT: Woodard & Curran PROJECT #: 98053.01 CET #: 98-4560

MATRIX: soil

	AOC1E	Duplicate	AOC5	DETECTION LIMIT
BENZENE	ND	ND	ND	5.0
BROMOBENZENE	ND	ND	ND	10.0
BROMOCHLOROMETHANE	ND	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	ND	5.0
BROMOFORM	ND	ND	ND	10.0
BROMOMETHANE	ND	ND	ND	25.0
n-BUTYLBENZENE	ND	ND	ND	5.0
sec-BUTYLBENZENE	ND	ND	ND	5.0
tert-BUTYLBENZENE	ND	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	ND	5.0
CHLOROBENZENE	ND	ND	ND	5.0
CHLOROETHANE	ND	ND	ND	25.0
CHLOROFORM	ND	ND	ND	5.0
CHLOROMETHANE	ND	ND	ND	25.0
2-CHLOROTOLUENE	ND	ND	ND	5.0
4-CHLOROTOLUENE	ND	ND	ND	5.0
DIBROMOCHLOROMETHANE	ND	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	10.0
1,2-DIBROMOETHANE	ND	ND	ND	5.0
DIBROMOMETHANE	ND	ND	ND	10.0
1,2-DICHLOROBENZENE	ND	ND	ND	5.0
1,3-DICHLOROBENZENE	ND	ND	ND	5.0
1,4-DICHLOROBENZENE	ND	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	25.0
1,1-DICHLORQETHANE	ND	ND	ND	5.0
1,2-DICHLOROETHANE	ND	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	ND	5.0
cis-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil UNITS: ppb
DATE ANALYZED: 7/8/98

1,2-DICHLOROPROPANE	AOC1E ND	Duplicate ND	AOC5 ND	DETECTION LIMIT 5.0
1,3-DICHLOROPROPANE	ND	ND	ND	5.0
2,2-DICHLOROPROPANE	ND	ND	ND	5.0
1,1-DICHLOROPROPENE	ND	ND	ND	5.0
ETHYLBENZENE	ND	ND	ND	5.0
HEXACHLOROBUTADIENE	ND	ND	ND	5.0
ISOPROPYLBENZENE	ND	ND	ND	5.0
4-ISOPROPYLTOLUENE	ND	ND	ND	5.0
METHYLENE CHLORIDE	ND	ND	ND	10.0
NAPHTHALENE	ND	ND	ND	5.0
n-PROPYLBENZENE	ND	ND	ND	5.0
STYRENE	ND	ND	ND	5.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	5.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	5.0
TETRACHLOROETHYLENE	ND	ND	ND	5.0
TOLUENE	ND	ND	ND	5.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	5.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	5.0
1,1,1-TRICHLOROETHANE	ND	ND	ND .	5.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	5.0
TRICHLOROETHYLENE	ND	ND	ND	5.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	5.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	5.0
1,2,4-TRIMETHYLBENZENE	ND	ND	ND	5.0
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	5.0
VINYL CHLORIDE	ND	ND	ND	10.0
O-XYLENE	ND	ND	ND	5.0
m+p-XYLENES	ND	ND	ND	5.0
MTBE	ND	ND	ND	10.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil UNITS: ppb DATE ANALYZED: 7/8/98

	AOC6A	AOC2A	DETECTION LIMIT
BENZENE	ND	ND	50
BROMOBENZENE	ND	ND	100
BROMOCHLOROMETHANE	ND	ND	50
BROMODICHLOROMETHANE	ND	ND	50
BROMOFORM	ND	ND	1.00
BROMOMETHANE	ND	ND	250
n-BUTYLBENZENE	ND	ND	50
sec-BUTYLBENZENE	ND	ND	50
tert-BUTYLBENZENE	ND	ND	50
CARBON TETRACHLORIDE	ND	ND	50
CHLOROBENZENE	ND	ND	50
CHLOROETHANE	ND	ND	250
CHLOROFORM	ND	ND	50
CHLOROMETHANE	ND	ND	250
2-CHLOROTOLUENE	ND	ND	50
4-CHLOROTOLUENE	ND	ND	50
DIBROMOCHLOROMETHANE	ND	ND	50
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	100
1,2-DIBROMOETHANE	ND	ND	50
DIBROMOMETHANE	ND	ND	100
1,2-DICHLOROBENZENE	ND	ND	50
1,3-DICHLOROBENZENE	ND	ND	50
1,4-DICHLOROBENZENE	ND	ND	50
DICHLORODIFLUOROMETHANE	ND	ND	250
1,1-DICHLOROETHANE	ND	ND	50
1,2-DICHLOROETHANE	ND	ND	50
1,1-DICHLOROETHYLENE	ND	150	50
cis-1,2-DICHLOROETHYLENE	ND	46000	50
trans-1,2-DICHLOROETHYLENE	ND	ND	50

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil

1,2-DICHLOROPROPANE	AOC6A ND	AOC2A ND	DETECTION LIMIT 50
1,3-DICHLOROPROPANE	ND	ND	50
2,2-DICHLOROPROPANE	ND	ND	50
1,1-DICHLOROPROPENE	ND	ND	50
ETHYL BENZENE	ND	67000	50
HEXACHLOROBUTADIENE	ND	ND	50
ISOPROPYLBENZENE	ND	1100	50
4-ISOPROPYLTOLUENE	ND	ND	50
METHYLENE CHLORIDE	ND	ND	100
NAPHTHALENE	ND	ND	50
n-PROPYLBENZENE	ND	340	50
STYRENE	ND	ND	50
1,1,1,2-TETRACHLOROETHANE	ND	ND	50
1,1,2,2-TETRACHLOROETHANE	ND	ND	50
TETRACHLOROETHYLENE	64	120000	50
TOLUENE	ND	190000	50
1,2,3-TRICHLOROBENZENE	ND	ND	50
1,2,4-TRICHLOROBENZENE	ND	ND	50
1,1,1-TRICHLOROETHANE	ND	ND	50
1,1,2-TRICHLOROETHANE	ND	ND	50
TRICHLOROETHYLENE	ND	9100	50
TRICHLOROFLUOROMETHANE	ND	ND	50
1,2,3-TRICHLOROPROPANE	ND	ND	50
1,2,4-TRIMETHYLBENZENE	ND	150	50
1,3,5-TRIMETHYLBENZENE	ND	170	50
VINYL CHLORIDE	ND	1100	100
O-XYLENE	ND	64000	50
m+p-XYLENES	ND	260000	50
MTBE	ND	ND	100

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil UNITS: ppb
DATE ANALYZED: 7/8/98

BENZENE	AOC2C ND	AOC2D ND	DETECTION LIMIT 50
BROMOBENZENE	ND	ND	100
BROMOCHLOROMETHANE	ND	ND	50
BROMODICHLOROMETHANE	ND	ND	50
BROMOFORM	ND	ND	100
BROMOMETHANE	ND	ND	250
n-BUTYLBENZENE	ND	ND	50
sec-BUTYLBENZENE	ND	ND	50
tert-BUTYLBENZENE	ND	ND	50
CARBON TETRACHLORIDE	ND	ND	50
CHLOROBENZENE	ND	ND	50
CHLOROETHANE	ND	ND	250
CHLOROFORM	ND	ND	50
CHLOROMETHANE	ND	ND	250
2-CHLOROTOLUENE	ND	ND	50
4-CHLOROTOLUENE	ND	ND	50
DIBROMOCHLOROMETHANE	ND	ND	50
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	100
1,2-DIBROMOETHANE	ND	ND	50
DIBROMOMETHANE	ND	ND	100
1,2-DICHLOROBENZENE	ND	ND	50
1,3-DICHLOROBENZENE	ND	ND	50
1,4-DICHLOROBENZENE	ND	ND	50
DICHLORODIFLUOROMETHANE	ND	ND	250
1,1-DICHLOROETHANE	ND	ND	50
1,2-DICHLOROETHANE	ND	ND	50
1,1-DICHLOROETHYLENE	ND	ND	50
cis-1,2-DICHLOROETHYLENE	ND	ND	50
trans-1,2-DICHLOROETHYLENE	ND	ND	50
			· -

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil

1,2-DICHLOROPROPANE	AOC2C	AOC2D	DETECTION LIMIT
1,3-DICHLOROPROPANE	ND	ND	50
	ND	ND	50
2,2-DICHLOROPROPANE	ND	ND	50
1,1-DICHLOROPROPENE	ND	ND	50
ETHYL BENZENE	96	ND	50
HEXACHLOROBUTADIENE	ND	ND	50
ISOPROPYLBENZENE	ND	ND	50
4-ISOPROPYLTOLUENE	ND	ND	50
METHYLENE CHLORIDE	ND	ND	100
NAPHTHALENE	ND	ND	50
n-PROPYLBENZENE	ND	ND	50
STYRENE	ND	ND	50
1,1,1,2-TETRACHLOROETHANE	ND	ND	50
1,1,2,2-TETRACHLOROETHANE	ND	ND	50
TETRACHLOROETHYLENE	ND	ND	50
TOLUENE	470	ND	50
1,2,3-TRICHLOROBENZENE	ND	ND	50
1,2,4-TRICHLOROBENZENE	ND	ND	50
1,1,1-TRICHLOROETHANE	ND	ND	50
1,1,2-TRICHLOROETHANE	ND	ND	50
TRICHLOROETHYLENE	ND	ND	50
TRICHLOROFLUOROMETHANE	ND	ND	50
1,2,3-TRICHLOROPROPANE	ND	ND	50
1,2,4-TRIMETHYLBENZENE	ND	ND	50
1,3,5-TRIMETHYLBENZENE	ND	ND	50
VINYL CHLORIDE	ND	ND	100
O-XYLENE	310	ND	50
m+p-XYLENES	850	ND	
MTBE	ND	ND	50
	-12	MD	100

CLIENT: Woodard & Curran

PROJECT #: 98053.01 CET #: 98-4560

MATRIX: soil UNITS: ppb DATE ANALYZED: 7/8/98

BENZENE	AOC6B ND	AOC2B ND	DETECTION LIMIT 5,0
BROMOBENZENE	ND	ND	10.0
BROMOCHLOROMETHANE	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	5.0
BROMOFORM	ND	ND	10.0
BROMOMETHANE	ND	ND	25.0
n-BUTYLBENZENE	ND	ND	5.0
sec-BUTYLBENZENE	ND	ND	5.0
tert-BUTYLBENZENE	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	5.0
CHLOROBENZENE	ND	ND	5.0
CHLOROETHANE	ND	ND	25.0
CHLOROFORM	ND	ND	5.0
CHLOROMETHANE	ND	ND	25.0
2-CHLOROTOLUENE	ND	ND	5.0
4-CHLOROTOLUENE	ND	ND	5.0
DIBROMOCHLOROMETHANE	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	10.0
1,2-DIBROMOETHANE	ND	ND	5.0
DIBROMOMETHANE	ND	ND	10.0
1,2-DICHLOROBENZENE	ND	ND	5.0
1,3-DICHLOROBENZENE	ND	ND	5.0
1,4-DICHLOROBENZENE	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	25.0
1,1-DICHLOROETHANE	ND	ND	5.0
1,2-DICHLOROETHANE	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	5.0
cis-1,2-DICHLOROETHYLENE	ND	ND	5.0
trans-1,2-DICHLOROETHYLENE	ND	ND	5.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil UNITS: ppb DATE ANALYZED: 7/8/98

DETECTION AOC6B AOC2B LIMIT 1,2-DICHLOROPROPANE ND ND 5.0 1,3-DICHLOROPROPANE ND ND 5.0 2,2-DICHLOROPROPANE ND ND 5.0 1,1-DICHLOROPROPENE ND ND 5.0 ETHYL BENZENE ND 120 5.0 HEXACHLOROBUTADIENE ND ND 5.0 **ISOPROPYLBENZENE** ND ND 5.0 4-ISOPROPYLTOLUENE ND ND 5.0 METHYLENE CHLORIDE ND ND 10.0 NAPHTHALENE ND ND 5.0 n-PROPYLBENZENE ND ND 5.0 STYRENE ND ND 5.0 1,1,1,2-TETRACHLOROETHANE ND ND 5.0 1,1,2,2-TETRACHLOROETHANE ND ND 5.0 TETRACHLOROETHYLENE 16 ND 5.0 TOLUENE ND 150 5.0 1,2,3-TRICHLOROBENZENE ND ND 5.0 1,2,4-TRICHLOROBENZENE ND ND 5.0 1,1,1-TRICHLOROETHANE ND ND 5.0 1,1,2-TRICHLOROETHANE ND ND 5.0 TRICHLOROETHYLENE ND ND 5.0 TRICHLOROFLUOROMETHANE ND ND 5.0 1,2,3-TRICHLOROPROPANE ND ND 5.0 1,2,4-TRIMETHYLBENZENE ND ND 5.0 1,3,5-TRIMETHYLBENZENE ND ND 5.0 VINYL CHLORIDE ND ND 10.0 O-XYLENE ND ND 5.0 m+p-XYLENES ND 2000 5.0 MTBE ND

ND

10.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil

	MW202-S3	MW204-S3	MW203-S3	DETECTION LIMIT
BENZENE	ND	ND	ND	5.0
BROMOBENZENE	ND	ND	ND	10.0
BROMOCHLOROMETHANE	ИD	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	ND	5.0
BROMOFORM	ND	ND	ND	10.0
BROMOMETHANE	ND	ND	ND	25.0
n-BUTYLBENZENE	ND	ND	ND	5.0
sec-BUTYLBENZENE	ND	ND	ND	5.0
tert-BUTYLBENZENE	ND	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	ND	5.0
CHLOROBENZENE	ND	ND	ND	5.0
CHLOROETHANE	ND	ND	ND	25.0
CHLOROFORM	ND	ND	ND	5.0
CHLOROMETHANE	ND	ND	ND	25.0
2-CHLOROTOLUENE	ND	ND	ND	5.0
4-CHLOROTOLUENE	ND	ND	ND	5.0
DIBROMOCHLOROMETHANE	ND	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	10.0
1,2-DIBROMOETHANE	ND	ND	ND	5.0
DIBROMOMETHANE	ND	ND	ND	10.0
1,2-DICHLOROBENZENE	ND	ND	ND	5.0
1,3-DICHLOROBENZENE	ND	ND	ND	5.0
1,4-DICHLOROBENZENE	ND	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	25.0
1,1-DICHLOROETHANE	ND	ND	ND	5.0
1,2-DICHLOROETHANE	ND	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	ND	5.0
cis-1,2-DICHLOROETHYLENE	ND	ND	ND	
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	5.0 5.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4560

MATRIX: soil

1,2-DICHLOROPROPANE	MW202-S3 ND	MW204-S3 ND	MW203-S3 ND	DETECTION LIMIT 5.0
1,3-DICHLOROPROPANE	ND	ND	ND	5.0
2,2-DICHLOROPROPANE	ND	ND	ND	5.0
1,1-DICHLOROPROPENE	ND	ND	ND	5.0
ETHYLBENZENE	ND	ND	ND	5.0
HEXACHLOROBUTADIENE	ND	ND	ND	5.0
ISOPROPYLBENZENE	ND	ND	ND	5.0
4-ISOPROPYLTOLUENE	ND	ND	ND	5.0
METHYLENE CHLORIDE	ND	ND	ND	10.0
NAPHTHALENE	ND	ND	ND	5,0
n-PROPYLBENZENE	ND	ND	ND	5.0
STYRENE	ND	ND	ND	5.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	5.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	5.0
TETRACHLOROETHYLENE	ND	ND	ND	5.0
TOLUENE	ND	ND	ND	5.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	5.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	5.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	5.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	5.0
TRICHLOROETHYLENE	ND	ND	ND	5.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	5.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	5.0
1,2,4-TRIMETHYLBENZENE	ND	ND	ND	5.0
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	5.0
VINYL CHLORIDE	ND	ND	ND	10.0
O-XYLENE	ND	ND	ND	5.0
m+p-XYLENES	ND	ND	ND	5.0
MTBE	ND	ND	ND	10.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4560

MATRIX: water UNITS: ppb DATE ANALYZED: 7/8/98

BENZENE ND ND 1.0 BROMOBENZENE ND ND 5.0 BROMOCHLOROMETHANE ND ND 1.0 BROMOCHLOROMETHANE ND ND ND 1.0 BROMOFORM ND ND ND 1.0 BROMOFORM ND ND ND 1.0 BROMOMETHANE ND ND ND 1.0 BROMOMETHANE ND ND ND 1.0 SEC-BUTYLBENZENE ND ND ND 1.0 CARBON TETRACHLORIDE ND ND ND 1.0 CHLOROBENZENE ND ND ND 1.0 CHLOROMETHANE ND ND 1.0 CHLOROMETHANE ND ND 1.0 CHLOROMETHANE ND ND 1.0 CHLOROMETHANE ND ND 1.0 CHLOROMETHANE ND ND 1.0 1.0 CHLOROMETHANE ND ND 1.0 1.0 1.2-CHLOROTOLUENE ND ND 1.0 1.2-CHLOROMETHANE ND ND 1.0 1.2-DIBROMOCHLOROMETHANE ND ND 1.0 DIBROMOCHLOROMETHANE ND ND 1.0 1.2-DIBROMOSTHANE ND ND 1.0 1.2-DICHLOROMETHANE ND ND 1.0 1.3-DICHLOROMETHANE ND ND 1.0 1.4-DICHLOROMETHANE ND ND 1.0 1.4-DICHLOROBENZENE ND ND 1.0 1.4-DICHLOROBENZENE ND ND 1.0 1.4-DICHLOROBENZENE ND ND 1.0 1.4-DICHLOROBENZENE ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0 1.2-DICHLOROBENZENE ND ND ND 1.0 1.1-DICHLOROBENZENE ND ND ND 1.0		Trip Blank	Eq. Blank	DETECTION LIMIT
BROMOBENZENE ND ND ND 5.0 BROMOCHLOROMETHANE ND ND ND 1.0 BROMOFORM ND ND ND 1.0 BROMOFORM ND ND ND 1.0 BROMOFORM ND ND ND 10.0 BROMOMETHANE ND ND ND 10.0 n-BUTYLBENZENE ND ND ND 1.0 Sec-BUTYLBENZENE ND ND ND 1.0 CARBON TETRACHLORIDE ND ND 1.0 CHLOROBENZENE ND ND ND 1.0 CHLOROFORM ND ND 1.0 CHLOROFORM ND ND 1.0 CHLOROMETHANE ND ND ND 1.0 CHLOROMETHANE ND ND ND 1.0 CHLOROMETHANE ND ND ND 1.0 1.0 CHLOROTOLUENE ND ND ND 1.0 1.2-CHLOROTOLUENE ND ND ND 1.0 DIBROMOCHLOROMETHANE ND ND ND 1.0 1,2-DIBROMO-3-CHLOROPROPANE ND ND ND 1.0 1,2-DIBROMOETHANE ND ND ND 1.0 1,2-DIBROMOETHANE ND ND ND 1.0 1,2-DICHLOROBENZENE ND ND ND 1.0 1,2-DICHLOROBENZENE ND ND ND 1.0 1,2-DICHLOROBENZENE ND ND ND 1.0 1,4-DICHLOROBENZENE ND ND ND 1.0 1,4-DICHLOROBENZENE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,2-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHANE ND ND ND 1.0 1,1-DICHLOROBETHYLENE ND ND ND 1.0 LIBROMOCETHANE ND ND ND 1.0 LIBROMOCETHANE ND ND ND 1.0 LIBROMOCETHANE ND ND ND 1.0 LIBROMOCETHANE ND ND ND 1.0 LIBROMOCETHANE ND ND ND 1.0	BENZENE	ND	ND	
BROMOCHLOROMETHANE	BROMOBENZENE	ND		
BROMODICHLOROMETHANE ND ND 1.0 BROMOFORM ND ND 5.0 BROMOMETHANE ND ND 10.0 n-BUTYLBENZENE ND ND 1.0 sec-BUTYLBENZENE ND ND 1.0 tert-BUTYLBENZENE ND ND ND 1.0 CARBON TETRACHLORIDE ND ND ND 1.0 CHLOROBENZENE ND ND ND 1.0 CHLOROBENZENE ND ND ND 1.0 CHLOROFORM ND ND 1.0 1.0 CHLOROFORM ND ND 1.0 1.0 CHLOROFORM ND ND 1.0 1.0 CHLOROFORM ND ND 1.0 1.0 4-CHLOROTOLUENE ND ND 1.0 1.0 4-CHLOROTOLUENE ND ND 1.0 1.0 1,2-DIBROMOCHLOROPETHANE ND ND 1.0 1.0 <td< td=""><td>BROMOCHLOROMETHANE</td><td>ND</td><td></td><td></td></td<>	BROMOCHLOROMETHANE	ND		
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trans-1 2-DICHIODOFFHUI FNF ND	cis-1,2-DICHLOROETHYLENE	ND		
ND 1.0	trans-1,2-DICHLOROETHYLENE	ND	ND	1.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4560

MATRIX: water UNITS: ppb DATE ANALYZED: 7/8/98

	Trip Blank	Eq. Blank	DETECTION LIMIT
1,2-DICHLOROPROPANE	ND	ND	1.0
1,3-DICHLOROPROPANE	ND	ND	1.0
2,2-DICHLOROPROPANE	ND	ND	1.0
1,1-DICHLOROPROPENE	ND	ND	1.0
ETHYL BENZENE	ND	ND	1.0
HEXACHLOROBUTADIENE	ND	ND	1.0
ISOPROPYLBENZENE	ND	ND	1.0
4-ISOPROPYLTOLUENE	ND	ND	1.0
METHYLENE CHLORIDE	ND	ND	5.0
NAPHTHALENE	ND	ND	1.0
n-PROPYLBENZENE	ND	ND	1.0
STYRENE	ND	ND	1,0
1,1,1,2-TETRACHLOROETHANE	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	1.0
TETRACHLOROETHYLENE	ND	ND	1.0
TOLUENE	ND	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	ND	1.0
1,1,2-TRICHLOROETHANE	ND	ND	1.0
TRICHLOROETHYLENE	ND	ND	1.0
TRICHLOROFLUOROMETHANE	ND	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	ND	1.0
1,2,4-TRIMETHYLBENZENE	ND	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	ND	1.0
VINYL CHLORIDE	ND	ND	2.0
O-XYLENE	ND	ND	1.0
m+p-XYLENES	ND	ND	1.0
MTBE	ND	ND	10.0

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484 Tel (203) 925-1133 FAX (203) 925-1140

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SAMPLE#	SAMPLE LOCATION	DATE	TIME	SAMPLE MATRIX	PRIORITY YES / NO	# OF CONTAINERS	70N	874	Co Char				
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CHAIN OF CUSTODY

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484 Tel (203) 925-1133 FAX (203) 925-1140

COMPLETE ENVIRONMENTAL TESTING, INC.	ENTAL TESTING, I	1%							FAX (203) 925-1140		
COMPANY NAME AND ADDRESS	RESS				REPORT TO: T. C. ARSY		Project #: 18053.6	PROJECT LOCATION:	PURCHASE ORDER #:	SAMPLED BY: FLACSE	
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911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484 Tel (203) 925-1133 FAX (203) 925-1140

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Tel: (203) 925-1133

Fax: (203) 925-1140 e-mail: comenvtst@aol.com

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484

July 16, 1998

Mr. Fred Larsen Woodard & Curran 15 Highland Ave. Cheshire, CT 06410

RE: Analysis of 14 water samples collected 7/8/98.

PROJECT: 98053.01, Middletown

CET #: 98-4691

The samples were analyzed for the parameters listed on the following pages.

Please call us if you have any questions.

David Ditta

Laboratory Director

Digg Motellar		#: 98-4691		
Diss. Metals:	MW-201	MW-101	MW-102	MW-202
Pb	ND<0.013	ND<0.013	ND<0.013	ND<0.013
Cd	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Cr	ND<0.05	ND<0.05	ND<0.05	ND<0.05
As	ND<0.05	ND<0.05	ND<0.05	
Se	ND<0.01	ND<0.03	ND(0.03	ND<0.05
Hg			ND<0.01	ND<0.01
	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Ba	0.07	ND<0.05	0.08	0.11
Ag	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Cu	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Ni	ND<0.05	ND<0.05	ND<0.05	
TPH (418.1)	ND<0.50	ND<0.50		ND<0.05
Cyanide	ND<0.10		ND<0.50	ND<0.50
Claurac	MD/O.TO	ND<0.10	ND<0.10	ND<0.10
Digg Mahala.	B- 51 1			
<u>Diss. Metals:</u>	<u>Eq. Blank</u>	<u>MW-103</u>	MW-104	MW-105
Pb	ND<0.013	$\overline{ND} < \overline{0.013}$	ND<0.013	ND<0.013
Cd	ND<0.005	ND<0.005	ND<0.005	ND<0.015
Cr	ND<0.05	ND<0.05	ND<0.05	
As	ND<0.05	ND<0.05		ND<0.05
Se	ND<0.03		ND<0.05	ND<0.05
Hg		ND<0.01	ND<0.01	ND<0.01
	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Ba	ND<0.05	0.13	0.06	0.76
Ag	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Cu	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Ni	ND<0.05	ND<0.05	ND<0.05	
TPH (418.1)	ND<0.50	ND<0.50		ND<0.05
Cyanide	ND<0.10		ND<0.50	ND<0.50
Ofduide	ND(U.10	ND<0.10	ND<0.10	ND<0.10
<u>D</u> iss. Metals:	MT. 106			
	<u>MW-106</u>	<u>MW-108</u>	MW-107	MW-203
Pb	ND<0.013	ND<0.013	ND<0.013	ND<0.013
Cd	ND<0.005	ND<0.005	ND<0.005	ND<0.005
			112 10.003	מטטיטאעת
Cr		ND<0.05		MDZA AE
	ND<0.05	ND<0.05	ND<0.05	ND<0.05
As	ND<0.05 ND<0.05	ND<0.05	ND<0.05 ND<0.05	ND<0.05
As Se	ND<0.05 ND<0.05 ND<0.01	ND<0.05 ND<0.01	ND<0.05 ND<0.05 ND<0.01	ND<0.05 ND<0.01
As Se Hg	ND<0.05 ND<0.05 ND<0.01 ND<0.002	ND<0.05 ND<0.01 ND<0.002	ND<0.05 ND<0.05 ND<0.01 ND<0.002	ND<0.05
As Se Hg Ba	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15	ND<0.05 ND<0.01 ND<0.002 0.23	ND<0.05 ND<0.05 ND<0.01	ND<0.05 ND<0.01 ND<0.002
As Se Hg Ba Ag	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02	ND<0.05 ND<0.01 ND<0.002	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09	ND<0.05 ND<0.01 ND<0.002 0.08
As Se Hg Ba Ag Cu	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02
As Se Hg Ba Ag Cu Ni	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05
As Se Hg Ba Ag Cu Ni	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05
As Se Hg Ba Ag Cu Ni TPH (418.1)	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals:	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.05 ND<0.10	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.05 ND<0.10	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.005	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.005 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.013 ND<0.005 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se Hg	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.013 ND<0.005 ND<0.05 ND<0.013 ND<0.005 ND<0.005	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se Hg Ba	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.05 ND<0.05 ND<0.50 ND<0.50 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.005 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se Hg Ba Ag	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.005 ND<0.005 ND<0.005 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se Hg Ba Ag Cu	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.05 ND<0.05 ND<0.50 ND<0.50 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.005 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se Hg Ba Ag	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.005 ND<0.05 ND<0.05 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se Hg Ba Ag Cu Ni	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50
As Se Hg Ba Ag Cu Ni TPH (418.1) Cyanide Diss. Metals: Pb Cd Cr As Se Hg Ba Ag Cu	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.15 ND<0.02 ND<0.05 ND<0.05 ND<0.10 MW-204 ND<0.013 ND<0.005 ND<0.005 ND<0.05 ND<0.05 ND<0.05 ND<0.05	ND<0.05 ND<0.01 ND<0.002 0.23 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.05 ND<0.01 ND<0.002 0.09 ND<0.02 ND<0.05 ND<0.05 ND<0.50	ND<0.05 ND<0.01 ND<0.002 0.08 ND<0.02 ND<0.05 ND<0.05 ND<0.50

Results are in ppm.

CLIENT: Woodard & Curran PROJECT #: 98053.01 CET #: 98-4691

MATRIX: water UNITS: ppb
DATE ANALYZED: 7/10/98

	MW-201	MW-101	MW-102	DETECTION LIMIT
BENZENE	ND	ND	ND	1.0
BROMOBENZENE	ND	ND	ND	5.0
BROMOCHLOROMETHANE	ND	ND	ND	1.0
BROMODICHLOROMETHANE	ND	ND	ND	1.0
BROMOFORM	ND	ND	ND	5.0
BROMOMETHANE	ND	ND	ND	10.0
n-BUTYLBENZENE	ND	ND	ND	1.0
sec-BUTYLBENZENE	ND	ND	ND	1.0
tert-BUTYLBENZENE	ND	ND	ND	1.0
CARBON TETRACHLORIDE	ND	ND	4.9	1.0
CHLOROBENZENE	ND	ND	ND_	1.0
CHLOROETHANE	ND	ND	ND	10.0
CHLOROFORM	ND	ND	14	1.0
CHLOROMETHANE	ND	ND	ND	10.0
2-CHLOROTOLUENE	ND	ND	ND	1.0
4-CHLOROTOLUENE	ND	ND	ND	1.0
DIBROMOCHLOROMETHANE	ND	ND	ND	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	5.0
1,2-DIBROMOETHANE	ND	ND	ND	1.0
DIBROMOMETHANE	ND	ND	ND	5.0
1,2-DICHLOROBENZENE	ND	ND	ND	1.0
1,3-DICHLOROBENZENE	ND	ND	ND	1.0
1,4-DICHLOROBENZENE	ND	ND	ND	1.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	10.0
1,1-DICHLOROETHANE	ND	ND	ND	1.0
1,2-DICHLOROETHANE	ND	ND	ND	1.0
1,1-DICHLOROETHYLENE	ND	ND	ND	1.0
cis-1,2-DICHLOROETHYLENE	ND	ND	15	1.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	1.0
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CLIENT: Woodard & Curran

PROJECT #: 98053.01 CET #: 98-4691

MATRIX: water

1,2-DICHLOROPROPANE	MW-201 ND	MW-101 ND	MW-102 ND	DETECTION LIMIT
1,3-DICHLOROPROPANE	ND	ND	ND	1.0
2,2-DICHLOROPROPANE	ND	ND	ND	1.0
1,1-DICHLOROPROPENE	ND	ND	ND	1.0
ETHYL BENZENE	ND	ND	ND	1.0
HEXACHLOROBUTADIENE	ND	ND	ND	1.0
ISOPROPYLBENZENE	ND	ND	ND	1.0
4-ISOPROPYLTOLUENE	ND	ND	ND	1.0 1.0
METHYLENE CHLORIDE	ND	ND	ND	5.0
NAPHTHALENE	ND	ND	ND	1.0
n-PROPYLBENZENE	ND	ND	ND	1.0
STYRENE	ND	ND	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	1.0
TETRACHLOROETHYLENE	ND	ND	16	1.0
TOLUENE	ND	ND	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	ND	ND	1.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	1.0
TRICHLOROETHYLENE	ND	ND	3.8	1.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	1.0
1,2,4-TRIMETHYBENZENE	ND	ND	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	1.0
VINYL CHLORIDE	ND	ND	ND	2.0
O-XYLENE	ND	ND	ND	1.0
m+p-XYLENES	ND	ND	ND	1.0
MTBE	ND	ND	ND	10.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4691

MATRIX: water

	MW-202	Eq. Blank	MW-103	DETECTION LIMIT
BENZENE	ND	ND	ND	1.0
BROMOBENZENE	ND	ND	ND	5.0
BROMOCHLOROMETHANE	ND	ND	ND	1.0
BROMODICHLOROMETHANE	ND	ND	ND	1.0
BROMOFORM	ND	ND	ND	5.0
BROMOMETHANE	ND	ND	ND	10.0
n-BUTYLBENZENE	ND	ND	ND	1.0
sec-BUTYLBENZENE	ND	ND	ND	1.0
tert-BUTYLBENZENE	ND	ND	ND	1.0
CARBON TETRACHLORIDE	ND	ND	ND	1.0
CHLOROBENZENE	ND	ND	ND	1.0
CHLOROETHANE	ND	ND	ND	10.0
CHLOROFORM	ND	ND	ND	1.0
CHLOROMETHANE	ND	ND	ND	10.0
2-CHLOROTOLUENE	ND	ND	ND	1.0
4-CHLOROTOLUENE	ND	ND	ND	1.0
DIBROMOCHLOROMETHANE	ND	ND	ND	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	5.0
1,2-DIBROMOETHANE	ND	ND	ND	1.0
DIBROMOMETHANE	ND	ND	ND	5.0
1,2-DICHLOROBENZENE	ND	ND	ND	1.0
1,3-DICHLOROBENZENE	ND	ND	ND	1.0
1,4-DICHLOROBENZENE	ND	ND	ND	1.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	10.0
1,1-DICHLOROETHANE	ND	ND	ND	1.0
1,2-DICHLOROETHANE	ND	ND	ND	1.0
1,1-DICHLOROETHYLENE	ND	ND	ND	1.0
cis-1,2-DICHLOROETHYLENE	ND	ND	7.0	1.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	1.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4691

MATRIX: water

UNITS: ppb
DATE ANALYZED: 7/10/98

1,2-DICHLOROPROPANE	MW-202 ND	Eq. Blank ND	MW-103 ND	DETECTION LIMIT 1.0
1,3-DICHLOROPROPANE	ND	ND	ND	1.0
2,2-DICHLOROPROPANE	ND	ND	ND	1.0
1,1-DICHLOROPROPENE	ND	ND	ND	1.0
ETHYL BENZENE	ND	ND	ND	1.0
HEXACHLOROBUTADIENE	ND	ND	ND	1.0
ISOPROPYLBENZENE	ND	ND	ND	1.0
4-ISOPROPYLTOLUENE	ND	ND	ND	1.0
METHYLENE CHLORIDE	ND	ND	ND	5.0
NAPHTHALENE	ND	ND	ND	1.0
n-PROPYLBENZENE	ND	ND	ND	1.0
STYRENE	ND	ND	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	1.0
TETRACHLOROETHYLENE	ND	ND	17	1.0
TOLUENE	ND	ND	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	ND	1.4	1.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	1.0
TRICHLOROETHYLENE	ND	ND	4.6	1.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	1.0
1,2,4-TRIMETHYBENZENE	ND	ND	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	1.0
VINYL CHLORIDE	ND	ND	ND	2.0
O-XYLENE	ND	ND	ND	1.0
m+p-XYLENES	ND	ND	ND	1.0
MTBE	ND	ND	ND	10.0

CLIENT: Woodard & Curran PROJECT #: 98053.01 CET #: 98-4691

MATRIX: water

	MW-104	MW-105	MW-106	DETECTION LIMIT
BENZENE	ND	ND	ND	1.0
BROMOBENZENE	ND	ND	ND	5.0
BROMOCHLOROMETHANE	ND	ND	ND	1.0
BROMODICHLOROMETHANE	ND	ND	ND	1.0
BROMOFORM	ND	ND	ND	5.0
BROMOMETHANE	ND	ND	160	10.0
n-BUTYLBENZENE	ND	ND	ND	1.0
sec-BUTYLBENZENE	ND	ND	ND	1.0
tert-BUTYLBENZENE	ND	ND	ND	1.0
CARBON TETRACHLORIDE	ND	ND	ND	1.0
CHLOROBENZENE	ND	ND	ND	1.0
CHLOROETHANE	ND	ND	ND	10.0
CHLOROFORM	ND	ND	ND	1.0
CHLOROMETHANE	ND	ND	ND	10.0
2-CHLOROTOLUENE	ND	ND	ND	1.0
4-CHLOROTOLUENE	ND	ND	ND	1.0
DIBROMOCHLOROMETHANE	ND	ND	ND	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	5.0
1,2-DIBROMOETHANE	ND	ND	ND	1.0
DIBROMOMETHANE	ND	ND	ND	5.0
1,2-DICHLOROBENZENE	ND	ND	ND	1.0
1,3-DICHLOROBENZENE	ND	ND	ND	1.0
1,4-DICHLOROBENZENE	ND	ND	ND	1.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	10.0
1,1-DICHLOROETHANE	2.4	ND	35	1.0
1,2-DICHLOROETHANE	ND	ND	8.1	1.0
1,1-DICHLOROETHYLENE	ND	ND	1.1	1.0
cis-1,2-DICHLOROETHYLENE	2.8	ND	140	1.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	1.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4691

MATRIX: water

1,2-DICHLOROPROPANE	MW-104 ND	MW-105 ND	MW-106 ND	DETECTION LIMIT 1.0
1,3-DICHLOROPROPANE	ND	ND	ND	1.0
2,2-DICHLOROPROPANE	ND	ND	ND	1.0
1,1-DICHLOROPROPENE	ND	ND	ND	1.0
ETHYL BENZENE	ND	ND	ND	1.0
HEXACHLOROBUTADIENE	ND	ND	ND	1.0
ISOPROPYLBENZENE	ND	ND	ND	1.0
4-ISOPROPYLTOLUENE	ND	ND	ND	1.0
METHYLENE CHLORIDE	ND	ND	ND	5.0
NAPHTHALENE	ND	ND	ND	1.0
n-PROPYLBENZENE	ND	ND	ND	1.0
STYRENE	ND	ND	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	1.0
TETRACHLOROETHYLENE	ND	1.4	37	1.0
TOLUENE	ND	ND	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	ND	2.5	1.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	1.0
TRICHLOROETHYLENE	ND	1.2	61	1.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	1.0
1,2,4-TRIMETHYBENZENE	ND	ND	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	1.0
VINYL CHLORIDE	ND	ND	74	2.0
O-XYLENE	ND	ND	ND	1.0
m+p-XYLENES	ND	ND	ND	1.0
MTBE	ND	ND	ND	10.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4691

MATRIX: water

	MW-108	MW-107	MW-203	DETECTION LIMIT
BENZENE	ND	ND	ND	1.0
BROMOBENZENE	ND	ND	ND	5.0
BROMOCHLOROMETHANE	ND	ND	ND	1.0
BROMODICHLOROMETHANE	ND	ND	ND	1.0
BROMOFORM	ND	ND	ND	5.0
BROMOMETHANE	ND	ND	ND	10.0
n-BUTYLBENZENE	ND	ND	ND	1.0
sec-BUTYLBENZENE	ND	ND	ND	1.0
tert-BUTYLBENZENE	ND	ND	ND	1.0
CARBON TETRACHLORIDE	ND	ND	ND	1.0
CHLOROBENZENE	ND	ND	ND	1.0
CHLOROETHANE	ND	ND	ND	10.0
CHLOROFORM	ND	ND	ND	1.0
CHLOROMETHANE	ND	ND	ND	10.0
2-CHLOROTOLUENE	ND	ND	ND	1.0
4-CHLOROTOLUENE	ND	ND	ND	1.0
DIBROMOCHLOROMETHANE	ND	ND	ND	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	5.0
1,2-DIBROMOETHANE	ND	ND	ND	1.0
DIBROMOMETHANE	ND	ND	ND	5.0
1,2-DICHLOROBENZENE	ND	ND	ND	1.0
1,3-DICHLOROBENZENE	ND	ND	ND	1.0
1,4-DICHLOROBENZENE	ND	ND	ND	1.0
DICHLORODIFLUOROMETHANE	ND	ND	ND	10.0
1,1-DICHLOROETHANE	ND	1.8	ND	1.0
1,2-DICHLOROETHANE	ND	3.7	ND	1.0
1,1-DICHLOROETHYLENE	ND	ND	ND	1.0
cis-1,2-DICHLOROETHYLENE	1.6	2.9	ND	1.0
trans-1,2-DICHLOROETHYLENE	ND	ND	ND	
			1117	1.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4691

MATRIX: water

	MW-108	MW-107	MIJ. 202	DETECTION
1,2-DICHLOROPROPANE	ND	ND	MW-203 ND	LIMIT 1.0
1,3-DICHLOROPROPANE	ND	ND	ND	1.0
2,2-DICHLOROPROPANE	ND	ND	ND	1.0
1,1-DICHLOROPROPENE	ND	ND	ND	1.0
ETHYL BENZENE	ND	ND	ND	1.0
HEXACHLOROBUTADIENE	ND	ND	ND	1.0
ISOPROPYLBENZENE	ND	ND	ND	1.0
4-ISOPROPYLTOLUENE	ND	ND	ND	1.0
METHYLENE CHLORIDE	ND	ND	ND	5.0
NAPHTHALENE	ND	ND	ND	1.0
n-PROPYLBENZENE	ND	ND	ND	1.0
STYRENE	ND	ND	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	1.0
TETRACHLOROETHYLENE	ND	1.3	ND	1.0
TOLUENE	ND	ND	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	ND	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	1.3	ND	1.0
1,1,2-TRICHLOROETHANE	ND	ND	ND	1.0
TRICHLOROETHYLENE	1.8	ND	ND	1.0
TRICHLOROFLUOROMETHANE	ND	ND	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	ND	ND	1.0
1,2,4-TRIMETHYBENZENE	ND	ND	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	1.0
VINYL CHLORIDE	ND	ND	ND	2.0
O-XYLENE	ND	ND	ND	1.0
m+p-XYLENES	ND	ND	ND	1.0
MTBE	ND	ND	ND	10.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-4691

MATRIX: water

	MW-204	Trip Blank	DETECTION LIMIT
BENZENE	ND	ND	1.0
BROMOBENZENE	ND	ND	5.0
BROMOCHLOROMETHANE	ND	ND	1.0
BROMODICHLOROMETHANE	ND	ND	1.0
BROMOFORM	ND	ND	5.0
BROMOMETHANE	ND	ND	10.0
n-BUTYLBENZENE	ND	ND	1.0
sec-BUTYLBENZENE	ND	ND	1.0
tert-BUTYLBENZENE	ND	ND	1.0
CARBON TETRACHLORIDE	ND	ND	1.0
CHLOROBENZENE	ND	ND	1.0
CHLOROETHANE	ND	ND	10.0
CHLOROFORM	ND	ND	1.0
CHLOROMETHANE	ND	ND	10.0
2-CHLOROTOLUENE	ND	ND	1.0
4-CHLOROTOLUENE	ND	ND	
DIBROMOCHLOROMETHANE	ND	ND	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	1.0
1,2-DIBROMOETHANE	ND	ND	5.0
DIBROMOMETHANE	ND	ND	1.0
1,2-DICHLOROBENZENE	ND	ND	5.0
1,3-DICHLOROBENZENE	ND	ND	1.0
1,4-DICHLOROBENZENE	ND	ND	1.0
DICHLORODIFLUOROMETHANE	ND	ND	1.0
1,1-DICHLOROETHANE	ND	ND	10.0
1,2-DICHLOROETHANE	ND	ND ND	1.0
1,1-DICHLOROETHYLENE	ND		1.0
cis-1,2-DICHLOROETHYLENE	ND	ND	1.0
trans-1,2-DICHLOROETHYLENE	ND	ND	1.0
,	MD	ND	1.0

CLIENT: Woodard & Curran

PROJECT #: 98053.01

CET #: 98-4691

MATRIX: water

	MW-204	Trip Blank	DETECTION LIMIT
1,2-DICHLOROPROPANE	ND	ND	1.0
1,3-DICHLOROPROPANE	ND	ND	1.0
2,2-DICHLOROPROPANE	ND	ND	1.0
1,1-DICHLOROPROPENE	ND	ND	1.0
ETHYL BENZENE	ND	ND	1.0
HEXACHLOROBUTADIENE	ND	ND	1.0
ISOPROPYLBENZENE	ND	ND	1.0
4-ISOPROPYLTOLUENE	ND	ND	1.0
METHYLENE CHLORIDE	ND	ND	5.0
NAPHTHALENE	ND	ND	1.0
n-PROPYLBENZENE	ND	ND	1.0
STYRENE	ND	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	1.0
TETRACHLOROETHYLENE	ND	ND	1.0
TOLUENE	ND	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	ND	1.0
1,1,1-TRICHLOROETHANE	ND	ND	1.0
1,1,2-TRICHLOROETHANE	ND	ND	1.0
TRICHLOROETHYLENE	ND	ND	1.0
TRICHLOROFLUOROMETHANE	ND	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	ND	1.0
1,2,4-TRIMETHYLBENZENE	ND	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	ND	1.0
VINYL CHLORIDE	ND	ND	2.0
O-XYLENE	ND	ND	1.0
m+p-XYLENES	ND	ND	1.0
MTBE	ND	ND	10.0



COMPANY NAME AND ADDRESS LOODARD

10 DIANA COJET

FRETILARSEN 98 053.01

REPORT TO:

PROJECT #:

PROJECT LOCATION:

PURCHASE ORDER #:

SAMPLED BY:

FAX (203) 925-1140

CARRAN

CHAIN OF CUSTODY

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484 Tel (203) 925-1133

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RELINQUISHED BY:	DATE TIME RECEIVED BY	V: DATE TIME	~ 826	
SAMPLE # SAMPLE LOCATION	DATE TIME SAMPLE MATRIX	PRIORITY # OF YES / NO CONTAINERS	TPH VOA DISSOLU CHAN	
MW-201	7/8/97 0710 WARE	IJ	XXXX	
101-MW	16/98 0800 MARE	5	x	
MW-102	78/28 0840 Maree	U	XXX	
MW-202_	Khis 0910 WARE	J	× 次 次	
EQUIPMENT BLANK	78/98 0855 Mares	ហ	X X X	
MW-103	TEMS ON 40 WATER	5	× × ×	
MULLA	78/95 0955 WATER	N	× × × ×	
WW -185	76/18 1015 WARRE	n	× × × ×	
MW-106	79/98/1040 WATER	N	× × × ×	
SPECIAL INSTRUCTIONS			COMMENTS DESOURD MOSAS HAVE BOEJ FICTURED	
		-		



COMPANY NAME AND ADDRESS WOODAGO & CURRAN

10 DIANA GURT

FRED REPORT TO:

CARSES

98053,01 PROJECT #:

PROJECT LOCATION: W (DDCESOL

PURCHASE ORDER #:

SAMPLED BY: 大しみ」CRAFT

CHAIN OF CUSTODY

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484 Tel (203) 925-1133 FAX (203) 925-1140

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SPECIAL INST				TRIPBLAN	A R J J	MW-204	MW-203	MW-107	1891-MW	SAMPLE #	XECINGO SHED B	8, 70, 8	RELINQUISHED B	(tres)	RELECOLISHED B	
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JUL 2 3 1998

WOODARD & CURRAN, INC. CHESHIRE, CONNECTICUT

Tel: (203) 925-1133

Fax: (203) 925-1140

e-mail: comenvtst@aol.com

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484

July 21, 1998

Mr. Fred Larsen Woodard & Curran 515 Highland Ave. Cheshire, CT 06410

RE: Analysis of 1 soil sample collected 7/8/98.

PROJECT: 98053.01, Middletown

CET #: 98-4692

AOC5B

Cr+6 ND<5.0

Results are in ppm.

Please call if you have any questions.

David Ditta

Laboratory Director



COMPANY NAME AND ADDRESS WOODAGO & CURRAN

REPORT TO:

PROJECT #:

PROJECT

PURCHASE ORDER #:

SAMPLED BY:

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484 Tel (203) 925-1133

FAX (203) 925-1140

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			×				\	18/2	78kg 1230	78/4		A & 53
			X	X	×	5	B	MATER	18/68/1210	7/8/5		MW-204
			X	x	×	J	R	WATER	78/241145	2/8/2		MW-203
			X	*	×	J	la	WATER	78/s8 1130	7/9/48		MW-107
				× ×	×	2	1,	MATTER	8	7/8/48		MW-108
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SAMPLED BY:	ORDER #: .		*:	Š			つれるみで	ひ み 別	STANCE OF THE PROPERTY OF THE	DRESS	AME AND AD	COMPANY NAME AND ADDRESS WICKDARD & CURRAT

APPENDIX C

GEOPROBE SUMMARY

Woodard & Curran
10 Diana Court
Suite 202
Cheshire, Connecticut 06410

August 4, 1998

Attention: Mr. Gerard Fordham

RE: Project Summary, Geoprobe Sampling Services

Portland Chemical Works - Middletown, Connecticut

Work Performed on August 3, 1998

Dear Mr. Fordham:

Following is a summary of site activities performed by ZEBRA Environmental at the Portland Chemical Works site located in Middletown, Connecticut. The work was performed on August 3, 1998.

PROJECT PERSONNEL ON SITE:

Mr. Gerard Fordham - Woodard & Curran

Ms. Kate Cancraft - Woodard & Curran

Mr. Robert Burawa - ZEBRA

Mr. Richard Miller - ZEBRA

ZEBRA mobilized a fully equipped ATV-mounted Geoprobe unit to the project site on August 3, 1998. ZEBRA personnel met Mr. Gerard Fordham of Woodard & Curran at approximately 9:30 AM and walked the site with Mr. Fordham noting utilities and anticipated location of sampling points.

The project involved collecting 28 soil samples from 14 points identified by Mr. Fordham. The location of the points was recorded on a site plan by Mr. Fordham. To collect soil samples, Macro Core (MC) open samplers were used. These samplers are open tube design and measure approximately 2" in outside diameter by 44" long. The samplers are fitted with a removable cutting shoe and clear acetate liner. Samples were collected from 0' - 8' below grade and measured approximately 44" by 1½" in diameter. Each of the samplers used was fitted with a new acetate liner prior to use. The acetate liner assists in the removal of the soil sample from the tube and helps insure sample integrity.

A total of twenty-eight (28) soil samples were collected by ZEBRA during the one (1) day on site.

All sampling tools were cleaned with Alconox, double rinsed with tap water and a final rinse of distilled water between sample collection. All polyethylene tubing and acetate liners were discarded after use.

All samples were left in the custody of Mr. Fordham and all drilled holes were sealed appropriately prior to leaving the site.

ZEBRA appreciates the opportunity to provide these services and looks forward to working with Woodard & Curran in the future. Should there be any questions regarding this project or our other services, please do not hesitate to call.

Sincerely,

Kollet Mirawa/el.
Robert Burawa

ZEBRA Environmental Corp.

RB/sl

(w&C-804,118,np51)

APPENDIX D

PHASE III ANALYTICAL RESULTS



911 Bridgeport Avenue 900 Shelton Plaza Shellon, CT 06484

Tel: (203) 925-1133 Fax: (203) 925-1140

e-mail: comenvtst@aol.com

August 8, 1998

Mr. Jerry Fordham Woodard & Curran 15 Highland Ave. Cheshire, CT 06410

RE: Analysis of 39 soil samples collected 8/3/98. PROJECT: 98053.01, Middletown

CET #: 98-5529

		TPH (418.1)	TPH (418.1)
2E		260	2T 0-4	640
2F		88	2T 4-8	75
2G		140	2บ	670
2H		9200	2V 0-4	520
21	0 - 4	65	2V 4-8	<50
21	4-8	<50	5B 0-4	57
2J	0-4	92	5B 4-8	<50
2J	4-8	<50	5C 0-4	58
2K	0-4	140	5C 4-8	<50
2K	4-8	<50	5D 0-4	130
2L		2600	5E 0-4	59
2M		10000	5E 4-8	<50
2N	0-4	120	6C 0-4	1600
2N	4-8	<50	6C 4-8	2700
20		5100	6D 0-4	27000
2P		6700	6D 4-8	870
2Q	0 - 4	1400	6E 0-4	710
2Q	4-8	<50	6E 4-8	74
2R		3800	DUPLICATE 2	3100
2 s		1100		5100

Results are in ppm.

David Ditta

Laboratory Director



911 Bridgeport Avenue 900 Shellon Plaza Shellon, CT 06484 Tel: (203) 925-1133 Fax: (203) 925-1140

e-mail: comenvtst@aol.com

August 8, 1998

Mr. Jerry Fordham Woodard & Curran 515 Highland Ave. Cheshire, CT 06410

RE: Analysis of 2 soil samples collected 8/3/98.

PROJECT: 98053.01, Middletown

CET #: 98~5530

5D 4-8

Duplicate 2

TPH (418.1)

530

880

Results are in ppm.

In addition, the samples were analyzed per EPA method 8260. The results are on the following pages in ppb.

Please call if you have any questions.

David Ditta

Laboratory Director

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-5530

MATRIX: soil UNITS: ppb DATE ANALYZED: 8/8/98

	5D 4-8	Duplicate 1	DETECTION LIMIT
BENZENE	ND	ND	5.0
BROMOBENZENE	ND	ND	10.0
BROMOCHLOROMETHANE	ND	ND	5.0
BROMODICHLOROMETHANE	ND	ND	5.0
BROMOFORM	ND	ND	10.0
BROMOMETHANE	ND	ND	25.0
n-BUTYLBENZENE	ND	ND	5.0
sec-BUTYLBENZENE	ND	ND	5.0
tert-BUTYLBENZENE	ND	ND	5.0
CARBON TETRACHLORIDE	ND	ND	5.0
CHLOROBENZENE	ND	ND	5.0
CHLOROETHANE	ND	ND	25.0
CHLOROFORM	ND	ND	5.0
CHLOROMETHANE	ND	ND	25.0
2-CHLOROTOLUENE	ND	ND	5.0
4-CHLOROTOLUENE	ND	ND	5.0
DIBROMOCHLOROMETHANE	ND	ND	5.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	10.0
1,2-DIBROMOETHANE	ND	ND	5.0
DIBROMOMETHANE	ND	ND	10.0
1,2-DICHLOROBENZENE	ND	ND	5.0
1,3-DICHLOROBENZENE	ND	ND	5.0
1,4-DICHLOROBENZENE	ND	ND	5.0
DICHLORODIFLUOROMETHANE	ND	ND	25.0
1,1-DICHLOROETHANE	ND	7.1	5.0
1,2-DICHLOROETHANE	ND	ND	5.0
1,1-DICHLOROETHYLENE	ND	ND	5.0
cis-1,2-DICHLOROETHYLENE	110	90	5.0
trans-1,2-DICHLOROETHYLENE	ND	ND	5.0

CLIENT: Woodard & Curran PROJECT #: 98053.01

CET #: 98-5530

MATRIX: soil UNITS: ppb DATE ANALYZED: 8/8/98

1,2-DICHLOROPROPANE	5D 4-8 ND	Duplicate 1 ND	DETECTION LIMIT 5.0
1,3-DICHLOROPROPANE	ND	ND	5.0
2,2-DICHLOROPROPANE	ND	ND	5.0
1,1-DICHLOROPROPENE	ND	ND	5.0
ETHYL BENZENE	ND	ND	5.0
HEXACHLOROBUTADIENE	ND	ND	5.0
ISOPROPYLBENZENE	ИD	ND	5.0
4-ISOPROPYLTOLUENE	ND	ND	5.0
METHYLENE CHLORIDE	ND	ND	10.0
NAPHTHALENE	ND	ND	5.0
n~PROPYLBENZENE	ND	ND	5.0
STYRENE	ND	ND	5.0
1,1,1,2-TETRACHLOROETHANE	ND	ND	5.0
1,1,2,2-TETRACHLOROETHANE	ND	ND	5.0
TETRACHLOROETHYLENE	ND	ND	5.0
TOLUENE	ND	ND	5.0
1,2,3-TRICHLOROBENZENE	ND	ND	5.0
1,2,4-TRICHLOROBENZENE	ND	ND	5.0
1,1,1-TRICHLOROETHANE	ND	ND	5.0
1,1,2-TRICHLOROETHANE	ND	ND	5.0
TRICHLOROETHYLENE	ND	ND	5.0
TRICHLOROFLUOROMETHANE	ND	ND	5,0
1,2,3-TRICHLOROPROPANE	ND	ND	5.0
1,2,4-TRIMETHYLBENZENE	ND	ND	5.0
1,3,5-TRIMETHYLBENZENE	ND	ND	5.0
VINYL CHLORIDE	13	13	10.0
O-XYLENE	ND	ND	5.0
m+p-XYLENES	ND	ND	5.0
MTBE	ND	ND	10

Sent by: COM	IPLETE E	ENV	IV TESTING 2039251133 0			08/10/98			9:24AM .			Jo	Job 742					Page 4/4							
en 0,	SAMPLED BY:																								
911 Bridgeport Avenue 900 Shefton Plaza Shelton, CT 06484 Tel (203) 925-1133 FAX (203) 925-1140	PURCHASE ORDER#:	IRED																							
911 B 900 S 900 S Shelto Tel (2)	PROJECT LOCATION:	ANALYSIS REQUIRED																							
!	PROJECT #: 98053.01	AN/				÷,					 														
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KINTAL TESTING, INC.	1	8/4/1/6 1540	TIME	TIME	-	8 2	320	1430	1435	044)	\$ P	1450	(455	1500	200	2.0	1285	1555	88	(605	1515	X		・ノーにルイ	
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WOODARD & CURRAN

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Bangor, Maine
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